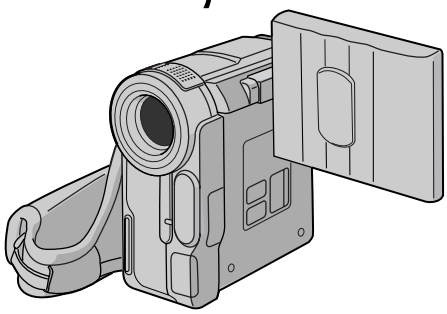
JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DX25EX, GR-DX25EY, GR-DX25EZ, GR-DX25EK, GR-DX35EX, GR-DX35EY, GR-DX35EZ, GR-DX35EK



Mini DV PAL

Regarding service information other than these sections, refer to the service manual No. 86740 (GR-DX75EX). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DX25EK, GR-DX35EK, GR-DX45EK and GR-DX55EK.)*

Camcorder

General

Power supply	: DC 11.0 V ⎓ (Using AC Adapter) DC 7.2 V ⎓ (Using battery pack)
Power consumption	
LCD monitor off, viewfinder on	: Approx. 3.4 W
LCD monitor on, viewfinder off	: Approx. 4.6 W
Dimensions (W x H x D)	: 55 mm x 102 mm x 96 mm (with the LCD monitor closed and the viewfinder pushed back in)
Weight	: Approx. 440 g (without grip belt)
Operating temperature	: 0°C to 40°C
Operating humidity	: 35% to 80%
Storage temperature	: –20°C to 50°C
Pickup	: 1/6" CCD
Lens	: F1.6, f =2.7 mm to 43.2 mm, 16:1 power zoom lens
Filter diameter	: ø30.5 mm
LCD monitor	: 3" diagonally measured, LCD panel/TFT active matrix system (GR-DX55/DX45) 2.5" diagonally measured, LCD panel/TFT active matrix system (GR-DX35/DX25)
Viewfinder	: Electronic viewfinder with 0.24" black/white LCD
Speaker	: Monaural

Digital Video Camera

Format	: DV format (SD mode)
Signal format	: PAL standard
Recording/ Playback format	: Video: Digital component recording : Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette	: Mini DV cassette
Tape speed	: SP : 18.8 mm/s LP : 12.5 mm/s
Maximum recording time (using 80 min. cassette)	: SP : 80 min. LP : 120 min.

Connectors

S/AV	
S-Video output	: Y : 1 V (p-p), 75 Ω, analogue C : 0.29 V (p-p), 75 Ω, analogue
S-Video input*	: Y : 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analogue C : 0.2 V (p-p) – 0.4 V (p-p), 75 Ω, analogue
Video output	: 1 V (p-p), 75 Ω, analogue
Video input*	: 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analogue
Audio output	: 300 mV (rms), 1 kΩ, analogue, stereo
Audio input*	: 300 mV (rms), 50 kΩ, analogue, stereo
Edit	: ø3.5 mm, 2-pole
DV	
Output	: 4-pin, IEEE 1394 compliant
Input*	: 4-pin, IEEE 1394 compliant
USB	: 5-pin

* GR-DX55/DX35 only.

AC Adapter

Power requirement	: AC 110 V to 240 V∿, 50 Hz/60 Hz
Output	: DC 11 V ⎓, 1 A

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

GR-DX25EK M3D324
GR-DX25EX M3D324
GR-DX25EY M3D324
GR-DX25EZ M3D324
GR-DX35EK M3D325
GR-DX35EX M3D325
GR-DX35EY M3D325
GR-DX35EZ M3D325

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No.86735
2003/06

CONTENTS

DIFFERENT LIST ..... 1 only

5. PARTS LIST 5-1

DIFFERENT LIST

DIFFERENT TABLE OF FEATURE

The following table indicate main different points between models GR-DX75EX, GR-DX25EK, GR-DX25EX, GR-DX25EY, GR-DX25EZ, GR-DX35EK, GR-DX35EX, GR-DX35EY and GR-DX35EZ.

ITEM \ MODEL	GR-DX75EX	GR-DX25EK	GR-DX25EX	GR-DX25EY	GR-DX25EZ	GR-DX35EK	GR-DX35EK	GR-DX35EY	GR-DX35EZ
VIDEO FLASH	USED	NOT USED	←	←	←	←	←	←	←
DSC FLASH MEMORY(MEMORY CARD)	USED(MMC-8MB)	NOT USED	←	←	←	←	←	←	←
DV TERMINAL	USED(IN/OUT)	USED(OUT)	←	←	←	USED(IN/OUT)	←	←	←
ANALOG INPUT	USED	NOT USED	←	←	←	USED	←	←	←
E-MAIL VIDEO CLIP REC	USED	NOT USED	←	←	←	←	←	←	←
DIGITAL STILL CAMERA	USED	NOT USED	←	←	←	←	←	←	←
AC CORD	CEE PLUG	BS PLUG	CEE PLUG	←	←	BS PLUG	CEE PLUG	←	←
MEMORY CARD	PROVIDED(MMC 8MB)	NOT USED	←	←	←	←	←	←	←

Notes: Mark ← is same as left.

JVC

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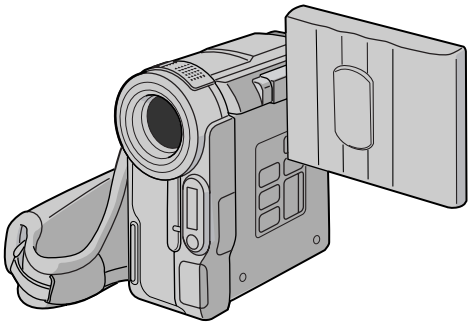
JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DX75EX, GR-DX75EY, GR-DX75EZ, GR-DX75EK, GR-DX95EX, GR-DX95EY, GR-DX95EZ, GR-DX95EK



Mini DV PAL

DSC DIGITAL STILL CAMERA

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700(MECHANISM ASSEMBLY).

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DX75EX, GR-DX95EX, GR-DX100EX and GR-DX300EX.)*

General

Power supply	: DC 11.0 V ⎓ (Using AC Adapter) DC 7.2 V ⎓ (Using battery pack)
Power consumption	
LCD monitor off, viewfinder on	: Approx. 3.4 W
LCD monitor on, viewfinder off	: Approx. 4.6 W
Dimensions (W x H x D)	: 55 mm x 102 mm x 96 mm (with the LCD monitor closed and the viewfinder pushed back in)
Weight	: Approx. 440 g (GR-DX300/DX100) (without grip belt)
	: Approx. 450 g (GR-DX95/DX75) (without grip belt)
Operating temperature	: 0°C to 40°C
Operating humidity	: 35% to 80%
Storage temperature	: –20°C to 50°C
Pickup	: 1/4" CCD (GR-DX300/DX100) 1/6" CCD (GR-DX95/DX75)
Lens	: F 1.8, f = 3.8 mm to 38 mm, 10:1 power zoom lens (GR-DX300/DX100) F1.6, f =2.7 mm to 43.2 mm, 16:1 power zoom lens (GR-DX95/DX75)
Filter diameter	: ø30.5 mm
LCD monitor	: 3" diagonally measured, LCD panel/TFT active matrix system (GR-DX300/DX95) 2.5" diagonally measured, LCD panel/TFT active matrix system (GR-DX100/DX75)
Viewfinder	: Electronic viewfinder with 0.24" black/white LCD
Speaker	: Monaural

Digital Video Camera

Format	: DV format (SD mode)
Signal format	: PAL standard
Recording/ Playback format	: Video: Digital component recording
	: Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette	: Mini DV cassette
Tape speed	: SP : 18.8 mm/s LP : 12.5 mm/s
Maximum recording time (using 80 min. cassette)	: SP : 80 min. LP : 120 min.

Digital Still Camera Function

Storage media	: SD Memory Card/MultiMediaCard
Compression system	: Still image : JPEG (compatible) Moving image : MPEG4 (compatible)
File size	: 4 modes (1600 x 1200 pixels*, 1280 x 960 pixels*, 1024 x 768 pixels, 640 x 480 pixels)
Picture quality	: 2 modes (FINE/STANDARD)
Approximate number of storable images	: ☞ pg. 18.

* GR-DX300/DX100 only.

Connectors

S/AV	
S-Video output	: Y : 1 V (p-p), 75 Ω, analogue C : 0.29 V (p-p), 75 Ω, analogue
S-Video input	: Y : 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analogue C : 0.2 V (p-p) – 0.4 V (p-p), 75 Ω, analogue
Video output	: 1 V (p-p), 75 Ω, analogue
Video input	: 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analogue
Audio output	: 300 mV (rms), 1 kΩ, analogue, stereo
Audio input	: 300 mV (rms), 50 kΩ, analogue, stereo
Edit	: ø3.5 mm, 2-pole
DV	
Output	: 4-pin, IEEE 1394 compliant
Input	: 4-pin, IEEE 1394 compliant
USB	: 5-pin

AC Adapter

Power requirement	: AC 110 V to 240 V∿, 50 Hz/60 Hz
Output	: DC 11 V ⎓, 1 A

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

GR-DX75EK M3D327
GR-DX75EX M3D327
GR-DX75EY M3D327
GR-DX75EZ M3D327
GR-DX95EK M3D337
GR-DX95EX M3D337
GR-DX95EY M3D337
GR-DX95EZ M3D337

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No.86740
2003/06

CONTENTS

Important Safety Precautions

1. DISASSEMBLY 1-1

3. ADJUSTMENT 3-1

4. CHARTS AND DIAGRAMS 4-1

5. PARTS LIST 5-1

DIFFERENT LIST

DIFFERENT TABLE OF FEATURE

The following table indicate main different points between models GR-DX75EK, GR-DX75EX, GR-DX75EY, GR-DX75EZ, GR-DX95EK, GR-DX95EX, GR-DX95EY and GR-DX95EZ.

ITEM \ MODEL	GR-DX75EK	GR-DX75EX	GR-DX75EY	GR-DX75EZ	GR-DX95EK	GR-DX95EX	GR-DX95EY	GR-DX95EZ
LCD MONITOR	2.5 INCH	←	←	←	3.0 INCH	←	←	←
AC CORD	BS PLUG	CEE PLUG	←	←	BS PLUG	CEE PLUG	←	←

Notes: Mark ← is same as left.

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

●Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded ( ) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape 3) Spacers 5) Barrier
   2) PVC tubing 4) Insulation sheets for transistors

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

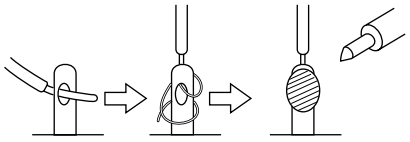


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

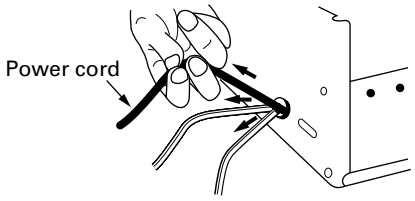


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) **Connector part number** : E03830-001
    2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).

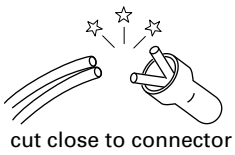


Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

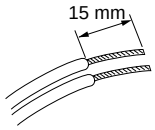


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

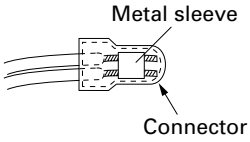


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

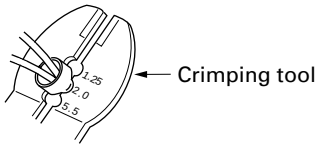


Fig.6

(5) Check the four points noted in Fig.7.

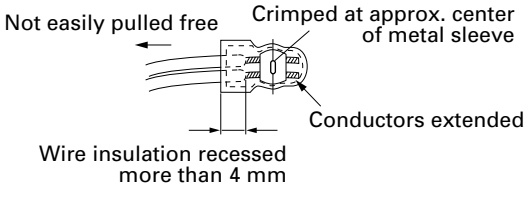

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

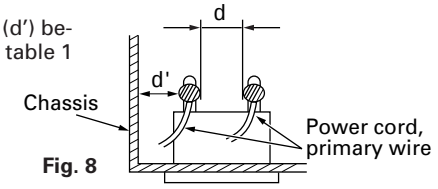


Fig. 8

4. Leakage current test
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
Measuring Method : (Power ON)
Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

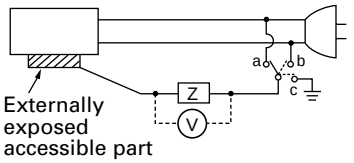


Fig. 9

5. Grounding (Class Ⅰ model only)
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).
Measuring Method:
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

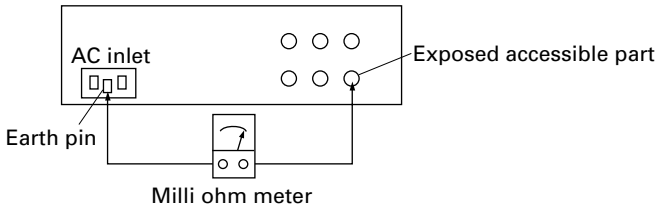


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 miute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦ R ≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1
DISASSEMBLY

1.1 Before disassembling

1.1.1 Precaution

- Be sure to disconnect the power supply unit prior to mounting and soldering of parts.
- Prior to removing a component part that needs to disconnect its connector(s) and its screw(s), first disconnect the wire(s) from the connector(s), and then remove the screw(s).
- Be careful not to damage the connector and wire etc. during connection and disconnection.
- When connecting the flat wire to the connector, be careful with the flat wire direction.
- Be careful in removing or handling the part to which some spacer or shield is attached for reinforcement or insulation.
- When replacing chip parts (especially IC parts), first remove the solder completely to prevent peeling of the pattern.
- Tighten screws properly during the procedures. Unless specified otherwise, tighten screws at a torque of 0.078Nom (0.8kgfocm).
- The bracketed ( ) WR of the connector symbol are assigned nos. in priority order and do not correspond to those on the spare parts list.

1.1.2 Disconnection of connectors (wires)

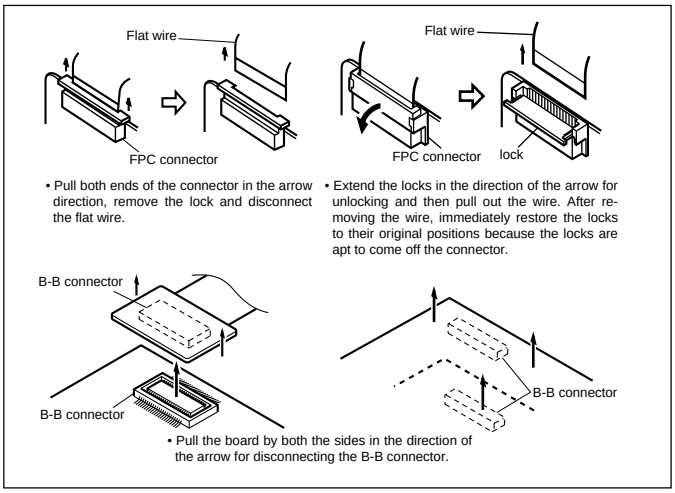

Flat wire
FPC connector
• Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.
Flat wire
FPC connector
lock
• Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.
B-B connector
B-B connector
B-B connector
• Pull the board by both the sides in the direction of the arrow for disconnecting the B-B connector.

Fig. 1-1-2a CONNECTOR

1.1.3 Required disassembling tools

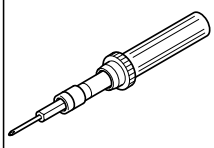
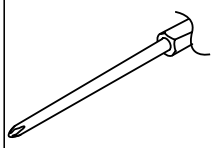
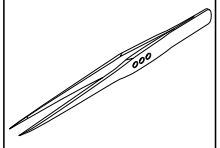
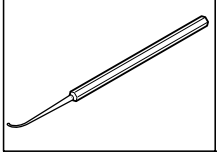
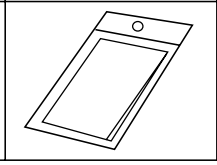
Torque driver YTU94088	Bit YTU94088-003	Tweezers P-895
		
Chip IC replacement jig PTS40844-2	Cleaning cloth KSMM-01	
		

Fig. 1-1-3a

- Torque driver
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- Bit
  This bit is slightly longer than those set in conventional torque drivers.
- Tweezers
  To be used for removing and installing parts and wires.
- Chip IC replacement jig
  To be used for replacement of IC.
- Cleaning cloth
  Recommended the Cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

1.2 Removing the major parts

1.2.1 How to read the procedure table

This table shows the steps for disassembly of the major parts. Reverse these steps when re-assembling them.
<Example>

Step No.	Part Name	Fig. No.	Point	Note
[1]	Top cover, Bracket	1-3a	4(S1a),(S1b),3(L1a), 2(SD1a),(P1a),(W1a), CN1(WR1a), 2(S1c)	<Note 1a>
(*1)	(*2)	(*3)	(*4)	(*5)

(*1) Order of steps in Procedure
When reassembling, perform the step(s) in the reverse order.
(*2) Part name to be removed or installed.
(*3) Fig. No. showing procedure or part location.
(*4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.
P= Spring, W= Washer, S= Screw, L= Locking tab, SD= Solder, CN**(WR**)= Remove the wire (WR**) from the connector (CN**).
(*5) Adjustment information for installation

1.2.2 Disassembly procedure

[FINAL ASS'Y]

Step No.	Part Name	Fig. No.	Point	Note
[1]	FRONT ASS'Y(G)	1-2-2a	(S132), 2(S131), (S133), (S130), TOP COVER, MIC COVER, (S125), (S126), 2(S129), MAIN CN115(WR101a), HOLDER(DV/USB)	
[2]	UPPER ASS'Y(G)	1-2-2a	2(S124), COVER(DV), (S128), (S127), BRACKET(TOP), (S120), (S122), (S121), 3(S123), MAIN CN112(WR102a), MAIN CN113(WR102b)	
[3]	LOWER ASS'Y(F)	1-2-2a	MAIN CN114(WR103a), MIC ASS'Y, MAIN CN111(WR103b), MAIN CN102(WR103c), MAIN CN101(WR103d), MAIN CN109(WR103e), (S119), 3(S118)	
[4]	MAIN BOARD ASS'Y	1-2-2a	2(S117), SHIELD PLATE, MAIN CN106(WR104a), MAIN CN110(WR104b), MAIN CN107(WR104c), MAIN CN103(WR104d), (L104a), MAIN CN108(WR104e), MAIN CN104(WR104f)	
[5]	MECHANISM ASS'Y	1-2-2a	(S116), BKT(PRE-REC), 3(S115), MECHA BKT ASS'Y	

[WIRE CONNECTION]

WR No.	CONNECTION					
WR101a	FRONT ASS'Y(G)	STROBE	CN6501		MAIN	CN115
WR102a	UPPER ASS'Y(G)	SUB OPE UNIT	—		MAIN	CN112
WR102b	UPPER ASS'Y(G)	MONITOR	CN7601		MAIN	CN113
WR103a	—	MIC ASS'Y	—		MAIN	CN114
WR103b	LOWER ASS'Y(F)	C. OPE UNIT	—		MAIN	CN111
WR103c	LOWER ASS'Y(F)	CCD	—		MAIN	CN102
WR103d	LOWER ASS'Y(F)	BATT. TERM.	—		MAIN	CN101
WR103e	LOWER ASS'Y(F)	SD	CN301		MAIN	CN109
WR104a	MECHA ASS'Y	SENSOR	—		MAIN	CN106
WR104b	MECHA ASS'Y	HEAD	—		MAIN	CN110
WR104c	MECHA ASS'Y	R. ENCODER	—		MAIN	CN107
WR104d	MECHA ASS'Y	LOAD. MOTOR	—		MAIN	CN103
WR104e	MECHA ASS'Y	CAP. MOTOR	—		MAIN	CN108
WR104f	MECHA ASS'Y	DRUM MOTOR	—		MAIN	CN104

[LOWER ASS'Y(F), LOWER ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	OP F. ASS'Y		(S560), SD CN302(WR551a), (S558), BKT(OP)	
	(OP ASS'Y)		(SD551a), CCD BOARD ASS'Y	
[2]	VF ASS'Y(G)		2(S559), SD CN304(WR552a)	
[3]	SD BOARD ASS'Y		(S557), SD CN303(WR553a)	
[4]	SIDE OPE BOARD ASS'Y		2(S512), CAMERA OPE UNIT, (S522), HOLDER(G.OUTER), 2(S514), BKT(S.COVER/VF), (S521), SIDE COVER ASS'Y, KNOB(DSC)	
[5]	CASS.COVER ASS'Y		4(S515)	
	(ARM ASS'Y)		2(S513), BATT.TERM.	

[UPPER ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	MONITOR ASS'Y(G)		(S614)*, BKT(SPEAKER)*, (S617), 2(S616), 2(S611), (WR601a)	(*601a)
			2(S612), COVER(TOP/UPP)L, COVER(TOP/UPP)R	
[2]	U.CASE ASS'Y		(S610), FRAME(UPPER) ASS'Y	

(*601a) Mark*: This part was deleted on the way of production.

[MONITOR ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	M.COVER ASS'Y		3(S815), 2(S814)	
[2]	MONITOR BOARD ASS'Y		(WR802a), MONITOR CN7601(WR802b), MONITOR CN7602(WR802c), 2(SD802a), (S812), 2(L802a)	
[3]	HINGE UNIT ASS'Y		(S813)	
[4]	MONITOR CASE(3)		BACK LIGHT, LCD BKT(3INCH)2, LCD MODULE, LCD BKT(3INCH)1	

[VF ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	VFBW BOARD ASS'Y		FRAME(VF)2 VFBW CN7002(WR851a), 2(S875)	
[2]	GUIDE(OUTER) ASS'Y		2(S871), (L852a), COVER(VF) ASS'Y	

<M2> FINAL ASS'Y

TABLE OF SETTING TORQUE FOR SCREW DRIVER

PART NO.	SETTING TORQUE
(115)(116)(117)	0.07 ±0.01 N•m
OTHER SCREW	0.09 ±0.01 N•m

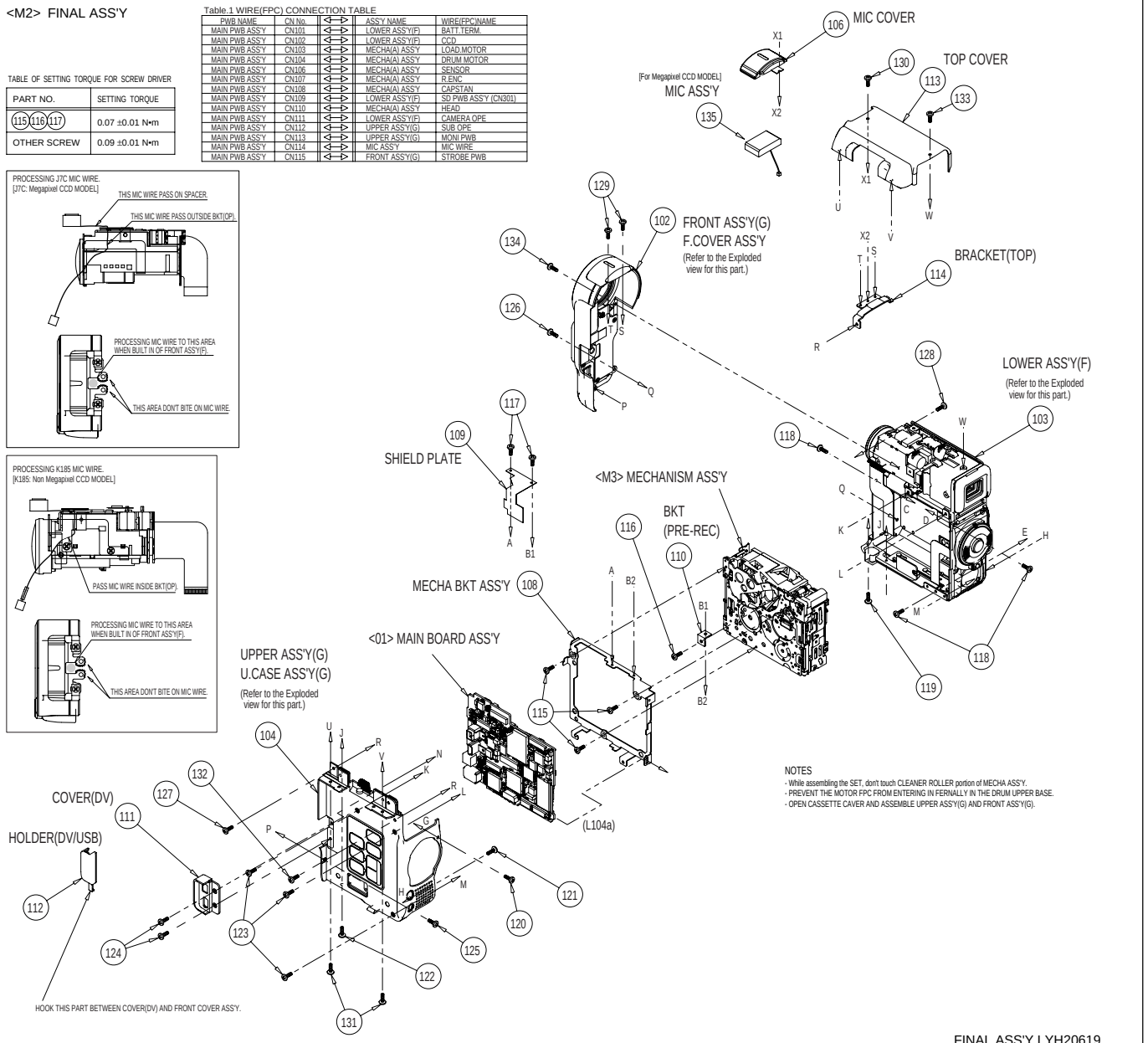
Table.1 WIRE(FPC) CONNECTION TABLE

PWB NAME	CN No.		ASS'Y NAME	WIRE(FPC)NAME
MAIN PWB ASS'Y	CN101	◁▷	LOWER ASS'Y(F)	BATT.TERM.
MAIN PWB ASS'Y	CN102	◁▷	LOWER ASS'Y(F)	CCD
MAIN PWB ASS'Y	CN103	◁▷	MECHA(A) ASS'Y	LOAD.MOTOR
MAIN PWB ASS'Y	CN104	◁▷	MECHA(A) ASS'Y	DRUM MOTOR
MAIN PWB ASS'Y	CN106	◁▷	MECHA(A) ASS'Y	SENSOR
MAIN PWB ASS'Y	CN107	◁▷	MECHA(A) ASS'Y	R.ENC
MAIN PWB ASS'Y	CN108	◁▷	MECHA(A) ASS'Y	CAPSTAN
MAIN PWB ASS'Y	CN109	◁▷	LOWER ASS'Y(F)	SD PWB ASS'Y (CN301)
MAIN PWB ASS'Y	CN110	◁▷	MECHA(A) ASS'Y	HEAD
MAIN PWB ASS'Y	CN111	◁▷	LOWER ASS'Y(F)	CAMERA OPE
MAIN PWB ASS'Y	CN112	◁▷	UPPER ASS'Y(G)	SUB OPE
MAIN PWB ASS'Y	CN113	◁▷	UPPER ASS'Y(G)	MONI PWB
MAIN PWB ASS'Y	CN114	◁▷	MIC ASS'Y	MIC WIRE
MAIN PWB ASS'Y	CN115	◁▷	FRONT ASS'Y(G)	STROBE PWB

PROCESSING J7C MIC WIRE.
[J7C: Megapixel CCD MODEL]

THIS MIC WIRE PASS ON SPACER.
THIS MIC WIRE PASS OUTSIDE BKT(DP).
PROCESSING MIC WIRE TO THIS AREA WHEN BUILT IN OF FRONT ASS'Y(F).
THIS AREA DON'T BITE ON MIC WIRE.

PROCESSING K185 MIC WIRE.
[K185: Non Megapixel CCD MODEL]



NOTES
- While assembling the SET, don't touch CLEANER ROLLER portion of MECHA ASS'Y.
- PREVENT THE MOTOR FPC FROM ENTERING IN FERNALLY IN THE DRUM UPPER BASE.
- OPEN CASSETTE CAVER AND ASSEMBLE UPPER ASS'Y(G) AND FRONT ASS'Y(G).

FINAL ASS'Y LYH20619
CLEANER ASS'Y LYH20615

TABLE OF SETTING TORQUE FOR SCREW DRIVER

PART NO.	SETTING TORQUE
(188)(189)	0.069 ±0.007 N•m

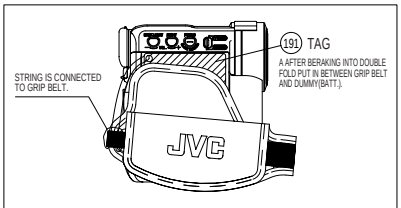


FIG. PROCESSING TAG

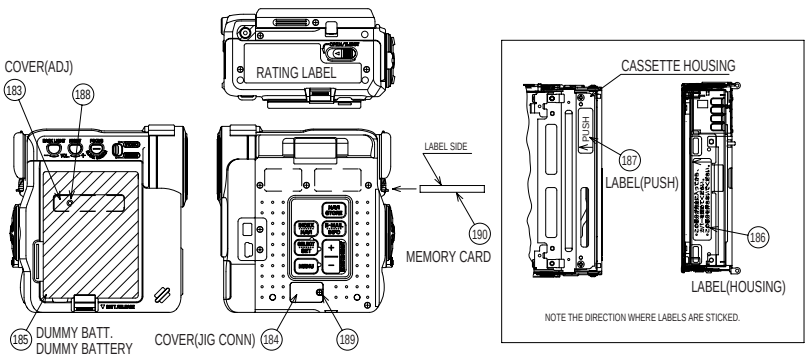


Fig. 1-2-2a FINAL ASS'Y

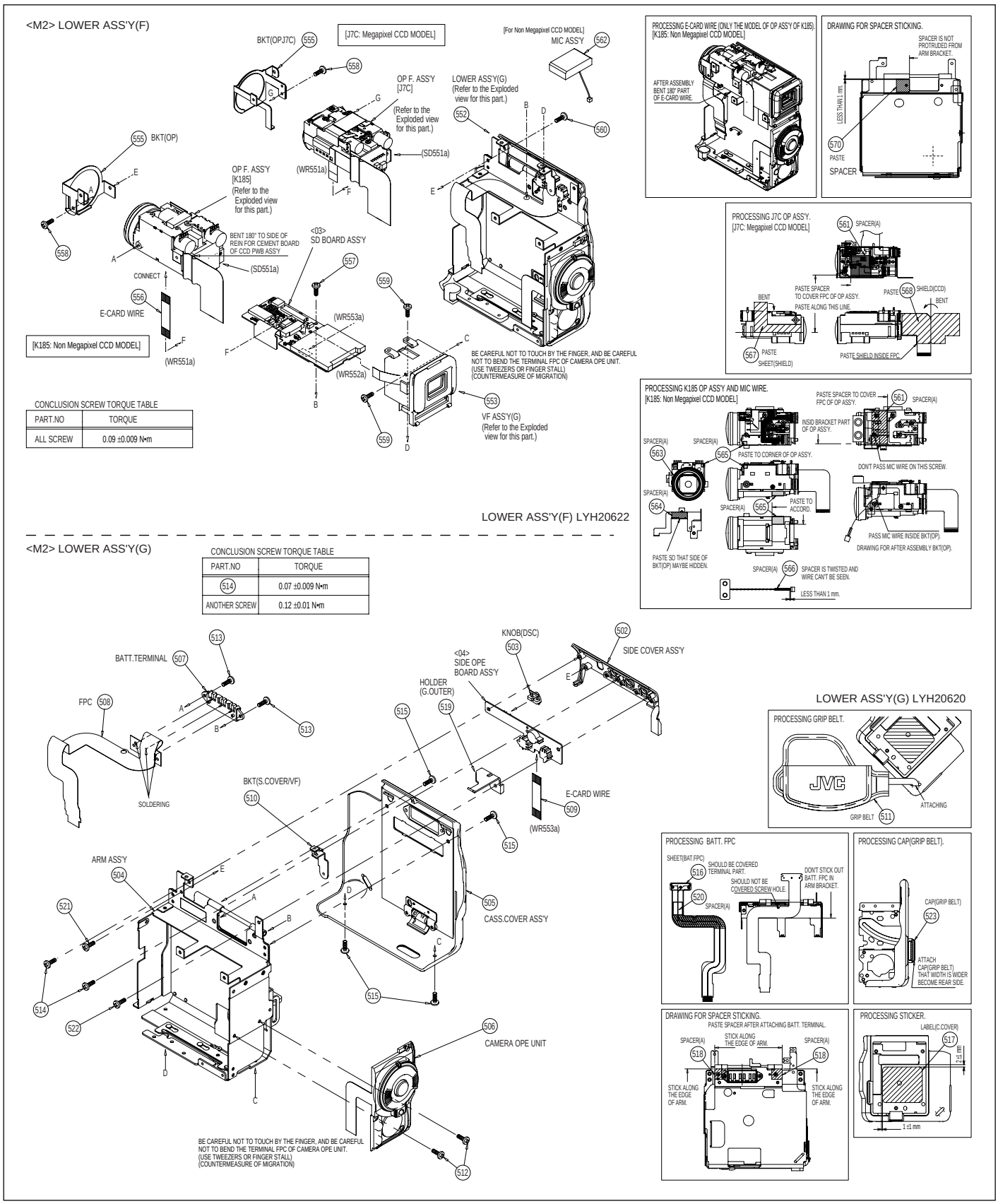
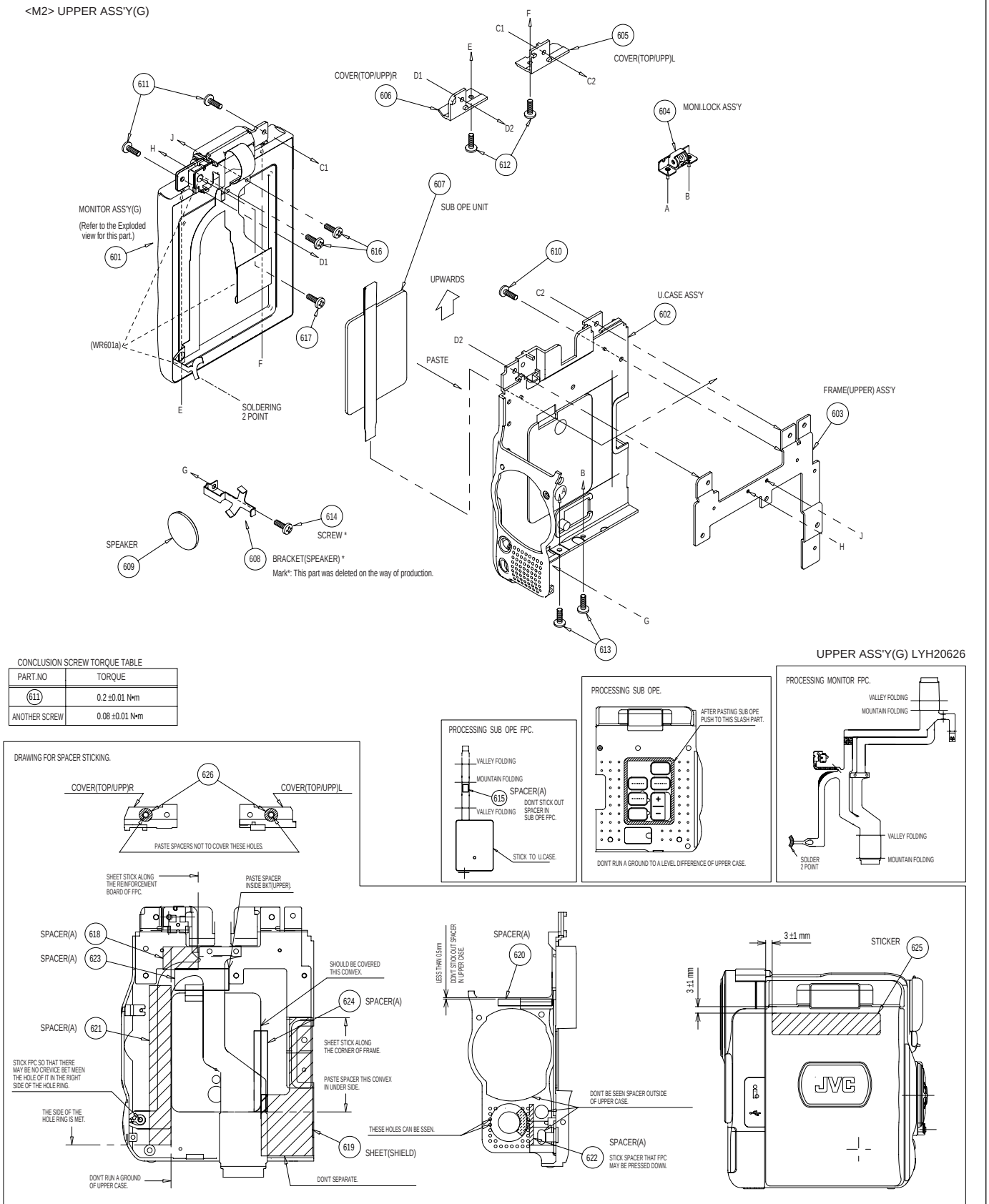


Fig. 1-2-2b LOWER ASS'Y(F), LOWER ASSY(G)

<M2> UPPER ASS'Y(G)



UPPER ASS'Y(G) LYH20626

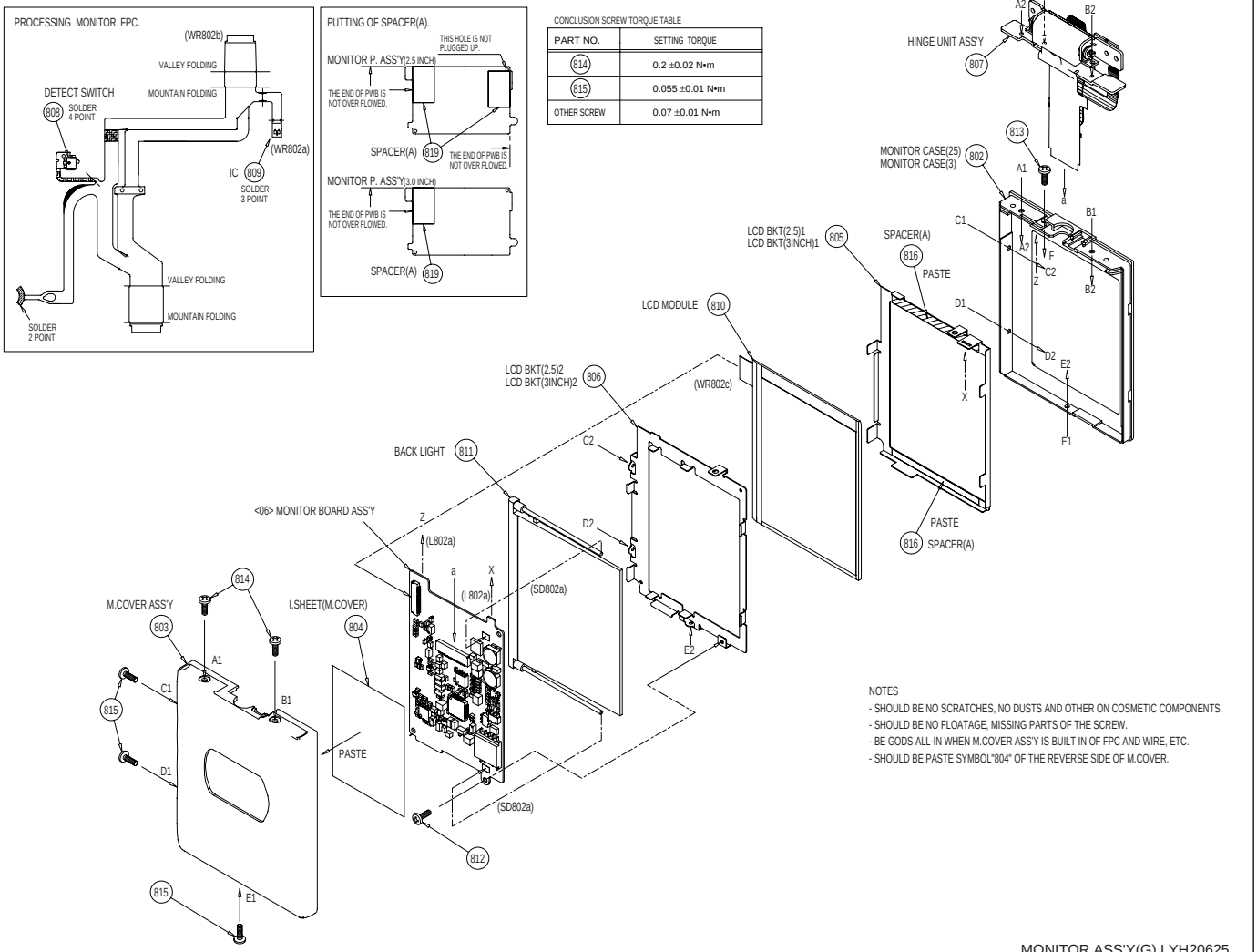
CONCLUSION SCREW TORQUE TABLE

PART.NO	TORQUE
(611)	0.2 ±0.01 N•m
ANOTHER SCREW	0.08 ±0.01 N•m

DRAWING FOR SPACER STICKING.
626
COVER(TOP/UPP)R
COVER(TOP/UPP)L
PASTE SPACERS NOT TO COVER THESE HOLES.
SHEET STICK ALONG THE REINFORCEMENT BOARD OF FPC.
PASTE SPACER INSIDE BKT(UPPER).
SPACER(A) 618
SPACER(A) 623
SPACER(A) 621
SHOULD BE COVERED THIS CONVEX.
624 SPACER(A)
SHEET STICK ALONG THE CORNER OF FRAME.
STICK FPC SO THAT THERE MAY BE NO CREVICE BET MEEN THE HOLE OF IT IN THE RIGHT SIDE OF THE HOLE RING.
PASTE SPACER THIS CONVEX IN UNDER SIDE.
THE SIDE OF THE HOLE RING IS MET.
THESE HOLES CAN BE SSEN.
619 SHEET(SHIELD)
DON'T RUN A GROUND OF UPPER CASE.
DON'T SEPARATE.
PROCESSING SUB OPE FPC.
VALLEY FOLDING
MOUNTAIN FOLDING
SPACER(A)
615
VALLEY FOLDING
DON'T STICK OUT SPACER IN SUB OPE FPC.
STICK TO U.CASE.
PROCESSING SUB OPE.
AFTER PASTING SUB OPE PUSH TO THIS SLASH PART.
DON'T RUN A GROUND TO A LEVEL DIFFERENCE OF UPPER CASE.
PROCESSING MONITOR FPC.
VALLEY FOLDING
MOUNTAIN FOLDING
VALLEY FOLDING
SOLDER 2 POINT
MOUNTAIN FOLDING
LESS THAN 0.5mm
DON'T STICK OUT SPACER IN UPPER CASE.
SPACER(A)
620
DON'T BE SEEN SPACER OUTSIDE OF UPPER CASE.
SPACER(A)
622
STICK SPACER THAT FPC MAY BE PRESSED DOWN.
3 ±1 mm
3 ±1 mm
STICKER
625
JVC

Fig. 1-2-2c UPPER ASS'Y(G)

<M2> MONITOR ASS'Y(G)



MONITOR ASS'Y(G) LYH20625

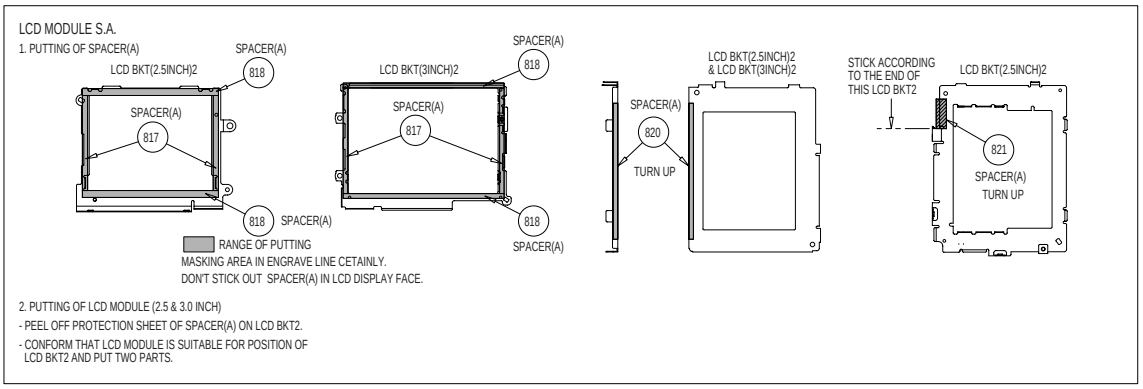

LCD MODULE S.A.
1. PUTTING OF SPACER(A)
SPACER(A) 818
LCD BKT(2.5INCH)2
SPACER(A) 817
818 SPACER(A)
LCD BKT(3INCH)2
SPACER(A) 818
SPACER(A) 817
818 SPACER(A)
RANGE OF PUTTING
MASKING AREA IN ENGRAVE LINE CETAINLY.
DON'T STICK OUT SPACER(A) IN LCD DISPLAY FACE.
LCD BKT(2.5INCH)2 & LCD BKT(3INCH)2
SPACER(A) 820
TURN UP
STICK ACCORDING TO THE END OF THIS LCD BKT2
LCD BKT(2.5INCH)2
821
SPACER(A) TURN UP
2. PUTTING OF LCD MODULE (2.5 & 3.0 INCH)
- PEEL OFF PROTECTION SHEET OF SPACER(A) ON LCD BKT2.
- CONFORM THAT LCD MODULE IS SUITABLE FOR POSITION OF LCD BKT2 AND PUT TWO PARTS.

Fig. 1-2-2d MONITOR ASS'Y(G)

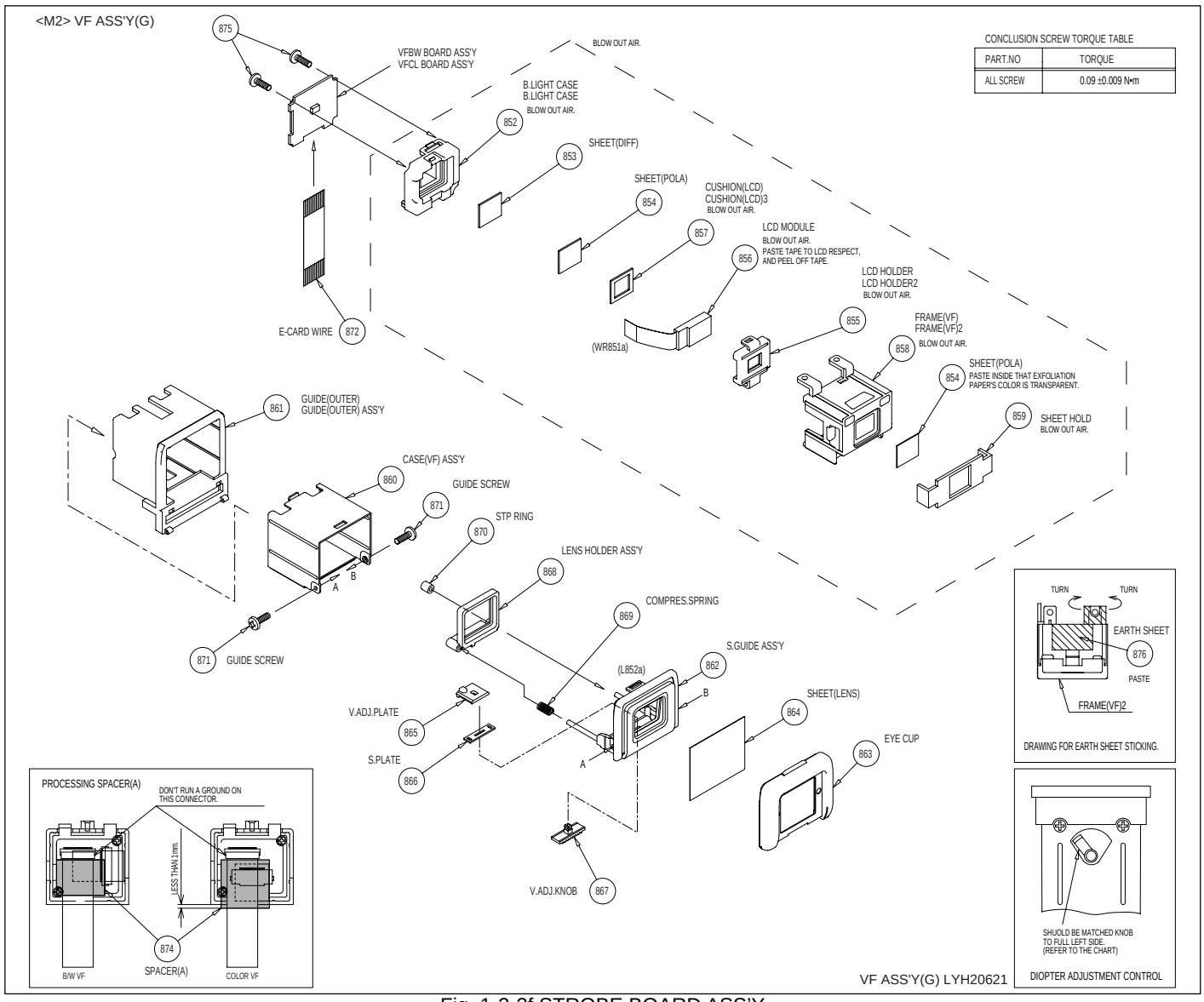


Fig. 1-2-2f STROBE BOARD ASS'Y

1.3 Manually removing the cassette tape

The following procedure describes a simplified method of ejecting the cassette tape in case it is not possible to eject it, due to an electrical failure.

Be careful not to damage any of the parts or the tape when performing repairs or maintenance work.

(1) Remove the Power Unit (battery, DC code, etc.) from the main unit.
(2) Open the Cassette cover.
(3) Attach a piece of PVC tape at the front of the Cassette housing.
    This helps prevent the tape from being damaged when the Cassette housing assembly is moved upward at the unloading end.
(4) Apply DC3V to the electrode on the top surface of the Loading motor assembly to set the Mechanism assembly to the eject mode.
    Unloading end is eject mode.
(5) If there is any slack tape in the tape transport system, wind it inside the cassette tape by turning the Reel disk (SUP) from the backside of the Slide deck assembly.
(6) Peel off the PVC tape and take out the cassette tape from the Cassette housing.
    Make sure that grease or a similar substance is not attached to the surface of the tape.
    Similarly, also make sure that grease or a similar substance is not attached on the Mechanism assembly.

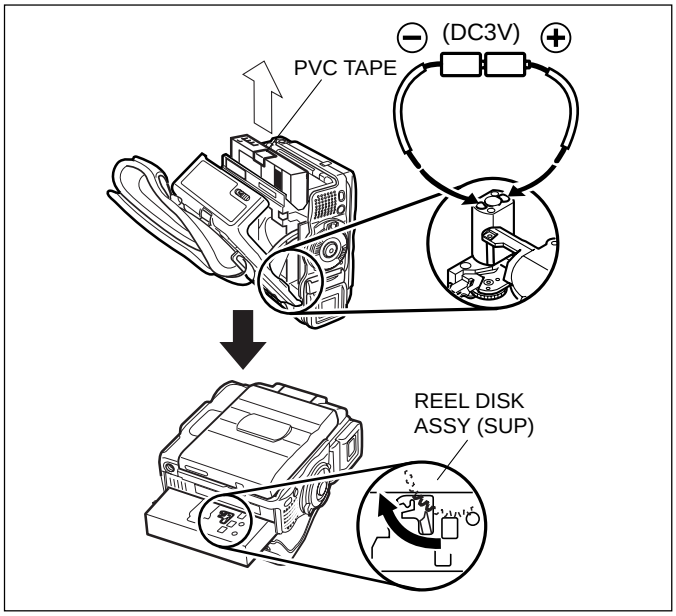
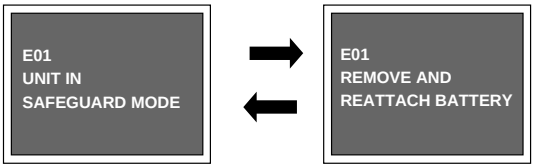


Fig. 1-3a

1.4 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the Electronic view finder).
In every error status, such the message as shown below alternately appear over and over.
In an emergency mode, all operations except turning on/off the Power switch are ineffectual.

Example (in case of the error number E01):



LCD display	Emergency mode	Details	Possible cause
E01	LOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. 3. No power is supplied to the loading MDA.
E02	UNLOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.
E03	TU & SUP REEL FG	In the case no REEL FG is produced for 4 seconds or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03]. However, no REEL EMG is detected in the SLW/ STILL mode.	1. The idler gear does not engage with the reel disk well. 2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism. 3. No FG pulse is output from the reel sensor. 4. No power is supplied to the reel sensor. 5. Tape transport operation takes place with a cassette having no tape inside. 6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.
E04	DRUM FG	In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off.	1. The drum cannot be started or drum rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. 2) The tape is damaged or soiled with grease, etc. 2. The DRUM FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the DRUM FG pulse generator (hall element). 3. No drum control voltage is supplied to the MDA. 4. No power is supplied to the DRUM MDA.
E05	—	—	—
E06	CAPSTAN FG	In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off. However, no CAPSTAN EMG is detected in the STILL/FF/ REW mode.	1. The CAPSTAN FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the CAPSTAN FG pulse generator (MR element). 2. No capstan control voltage is supplied to the MDA. 3. No power is supplied to the CAPSTAN MDA. 4. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. (Mechanical locking) 2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)

Fig. 1-4a

SECTION 3
ADJUSTMENT

3.1 Before adjustment

3.1.1 Precaution

This model does not contain adjustment controls (VR).
General deck system, camera system and monitor system adjustment are not required. However, if circuit board mounting the EEPROM needs replacement, please use original EEPROM on to new board. Then adjustment are not required. And if parts such as the following need replacement, special computerized adjustment are required. Electrical adjustment with personal computer is setup and it adjusts using a service support system. Please contact to JVC Service for detail information.

- OP BLOCK ASSEMBLY
- EEPROM (IC1003 of MAIN board) [Megapixel CCD MODEL]
- EEPROM (IC1005 of MAIN board) [Non Megapixel CCD MODEL]

In the event of malfunction with electrical circuits, troubleshooting with the aid of proper test instruments most be done first, and then commence necessary repair, replacement and adjustment, etc.

- In case of wiring to chip test points for measurement, use IC clips, etc. to avoid any stress.
- Since connectors are fragile, carefully handle them in disconnecting and connecting.
- In the following work, use the patch cords as required. For details of the patch cords, see the "BOARD INTERCONNECTIONS" (CHARTS AND DIAGRAMS).

3.1.2 Required test equipments

- AC power adapter
- Color television or monitor
- Oscilloscope
  (dual-trace type, observable 100 MHz or higher frequency)
  It is recommended to use one observable 300 MHz or higher frequency.
- Digital voltmeter
- Frequency counter (with threshold level adjuster)
- Personal computer

3.1.3 Required adjustment tools

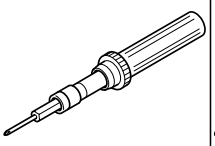
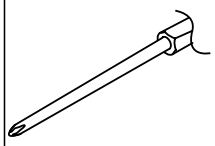
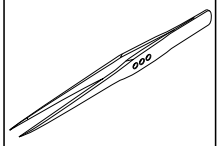
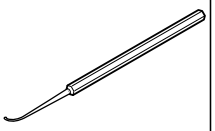
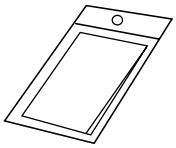
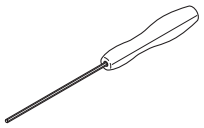
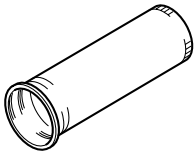
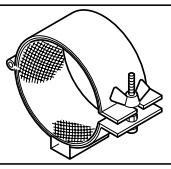
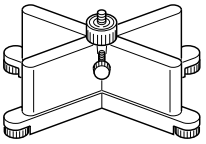
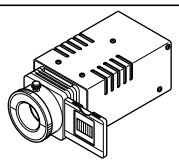
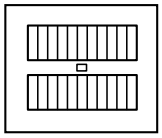
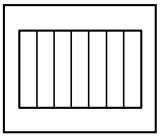
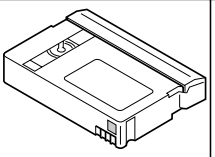
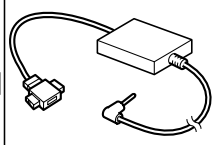
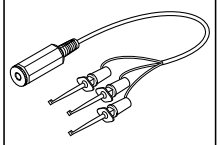
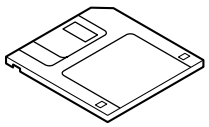
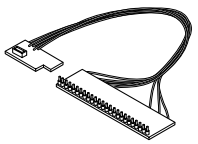
Torque driver YTU94088	Bit YTU94088-003	Tweezers P-895
		
Chip IC replacement jig PTS40844-2	Cleaning cloth KSMM-01	Guide driver (Hexagonal) D-770-1.27
		
INF adjustment lens YTU92001B	INF lens holder YTU94087	Camera stand YTU93079
		
Light box assembly YTU93096A	Gray scale chart YTU94133A	Color bar chart YTU94133C
		
Alignment tape MC-*	PC cable QAM0099-***	Communication cable YTU93107A
		
Service support system YTU94057-**	Jig connector cable YTU93106B	Extension connector YTU94145C-30
		

Table 3-1-3a

- Torque driver
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- Bit
  This bit is slightly longer than those set in conventional torque drivers.
- Tweezers
  To be used for removing and installing parts and wires.
- Chip IC replacement jig
  To be used for replacement of IC.
- Cleaning cloth
  Recommended the Cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.
- Guide driver (Hexagonal)
  To be used for mechanism compatibility adjustment.
- INF adjustment lens
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- INF lens holder
  To be used together with the Camera stand for operating the Videocamera in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Camera stand
  To be used together with the INF adjustment lens holder.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Light box assembly
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Gray scale chart
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Color bar chart
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Alignment tape
  To be used for mechanism compatibility adjustment.
  MC-1 [For NTSC model]
  MC-2 [For PAL model]
- PC cable
  To be used to connect the Videocamera and a personal computer with each other when a personal computer is used for adjustment.
  QAM0099-001 [For J* model]
  QAM0099-002 [For U* and K* models]
  QAM0099-003 [For E* models]
  QAM0099-005 [For A* models]
- Communication cable
  Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
- Service support system
  To be used for adjustment with a personal computer. Software can be downloaded also from JS-net.
- Jig connector cable
  Connected to CN for Jig of the circuit board and used for electrical adjustment, etc.
- Extension connector
  Connect this extension connector to the connector of the Jig connector cable for extending the cable connector.

3.1.4 Jig connector cable connection

3.1.4.1 Preparation

The Jig connector cable (YTU93106B) has been provided for GR-DV2000 series. And it has been connected only 9 terminals for low cost, although it has 30 terminals.
Now it can be used another series camcorder, but all the terminals have to be connected by soldering wires. Refer to the Service Bulletin (No. YA-SB-10082), and connect all the terminals.

3.1.4.2 Connection

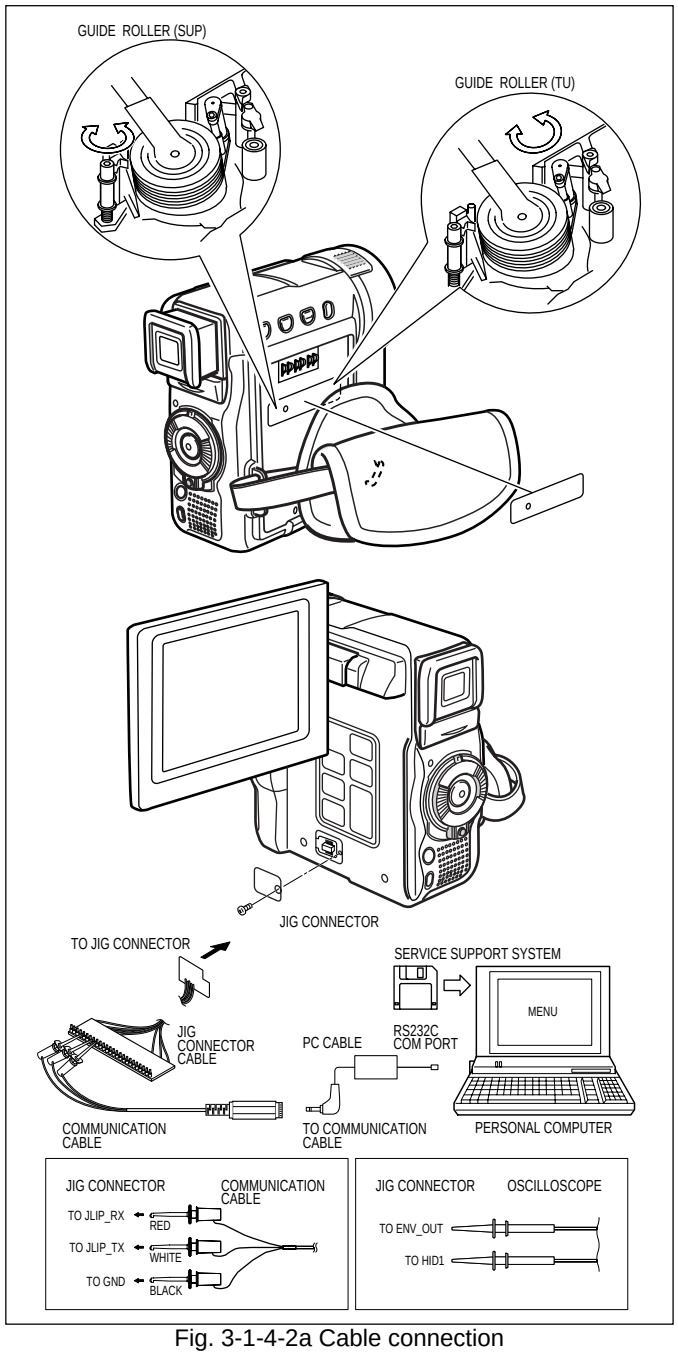


Fig. 3-1-4-2a Cable connection

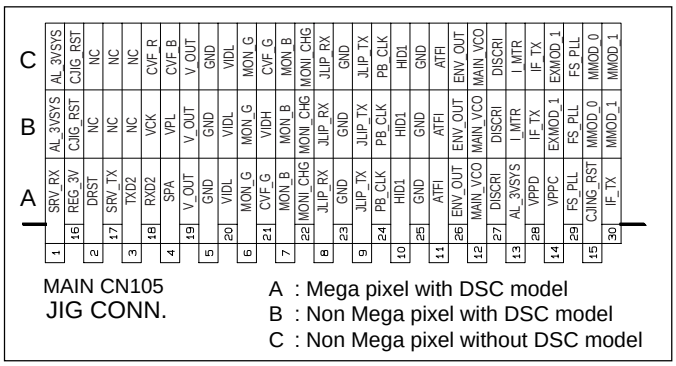


Fig. 3-1-4-2b Schematic diagram of Jig CN

3.2 Mechanism compatibility adjustment

3.2.1 Tape pattern check

(1) Play back the tape for compatibility adjustment.
(2) Apply the external trigger signal to HID1, to observe the waveform of the ENV_OUT.
(3) Set to the manual tracking mode (ATF OFF).
(4) Make sure that there is no significant level drop of the waveform caused by the tracking operation, with its generally parallel and linear variation ensured. Perform the following adjustments when required.
(5) Reduce the waveform by the tracking operation. If a drop in level is found on the left side, turn the guide roller (supply side) to make the waveform linear.
If a drop in level is on the right side, likewise turn the guide roller (take-up side) to make it linear.
(6) Unload the cassette tape once, play back the tape again and confirm that the waveform is flat.
(7) Record at the recording tape, and play back the recorded signal.
(8) Confirm that the waveform is flat.

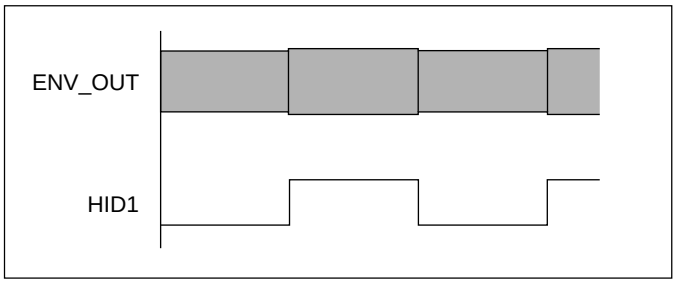


Fig. 3-2-1a

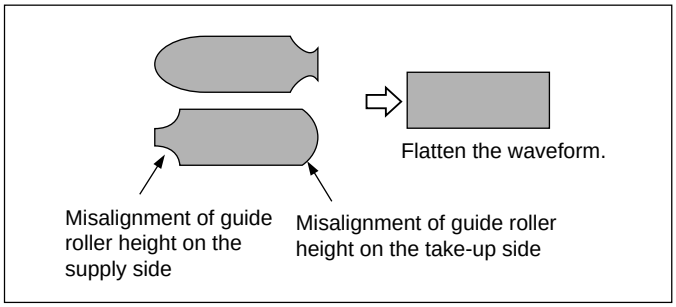

Flatten the waveform.
Misalignment of guide roller height on the supply side
Misalignment of guide roller height on the take-up side

Fig. 3-2-1b

3.3 Electrical adjustment

Adjustment is performed by using personal computer. Read README.TXT file to use the software for Service support system properly.
As for the connection of cables, see Fig. Cable connection.

JVC

VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY. 12,3-chome,Moriya-cho,Kanagawa-ku,Yokohama,Kanagawa-prefecture,221-8528,Japan

Printed in Japan
0306 VP

SECTION 4
CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components identified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ (1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

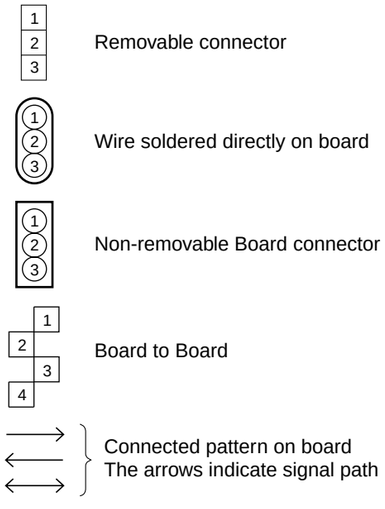
Note: The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

2. Indications of control voltage

AUX : Active at high.

$\overline{\text{AUX}}$ or AUX(L) : Active at low.

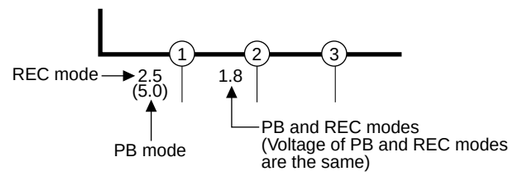
3. Interpreting Connector indications



Note: For the destination of each signal and further line connections that are cut off from the diagram, refer to "BOARD INTERCONNECTIONS"

4. Voltage measurement

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
4) Indication on schematic diagram
   Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

5. Signal path Symbols

The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.

Playback signal path

Playback and recording signal path

Recording signal path
(including E-E signal path)

Capstan servo path

Drum servo path

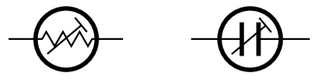
(Example)

R-Y Playback R-Y signal path

Y Recording Y signal path

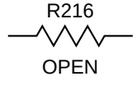
6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.



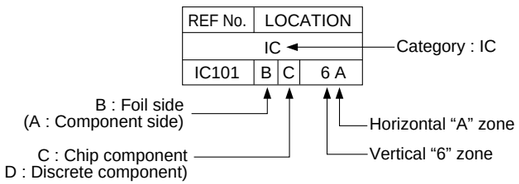
CIRCUIT BOARD NOTES

1. Foil and Component sides

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

2. Parts location guides

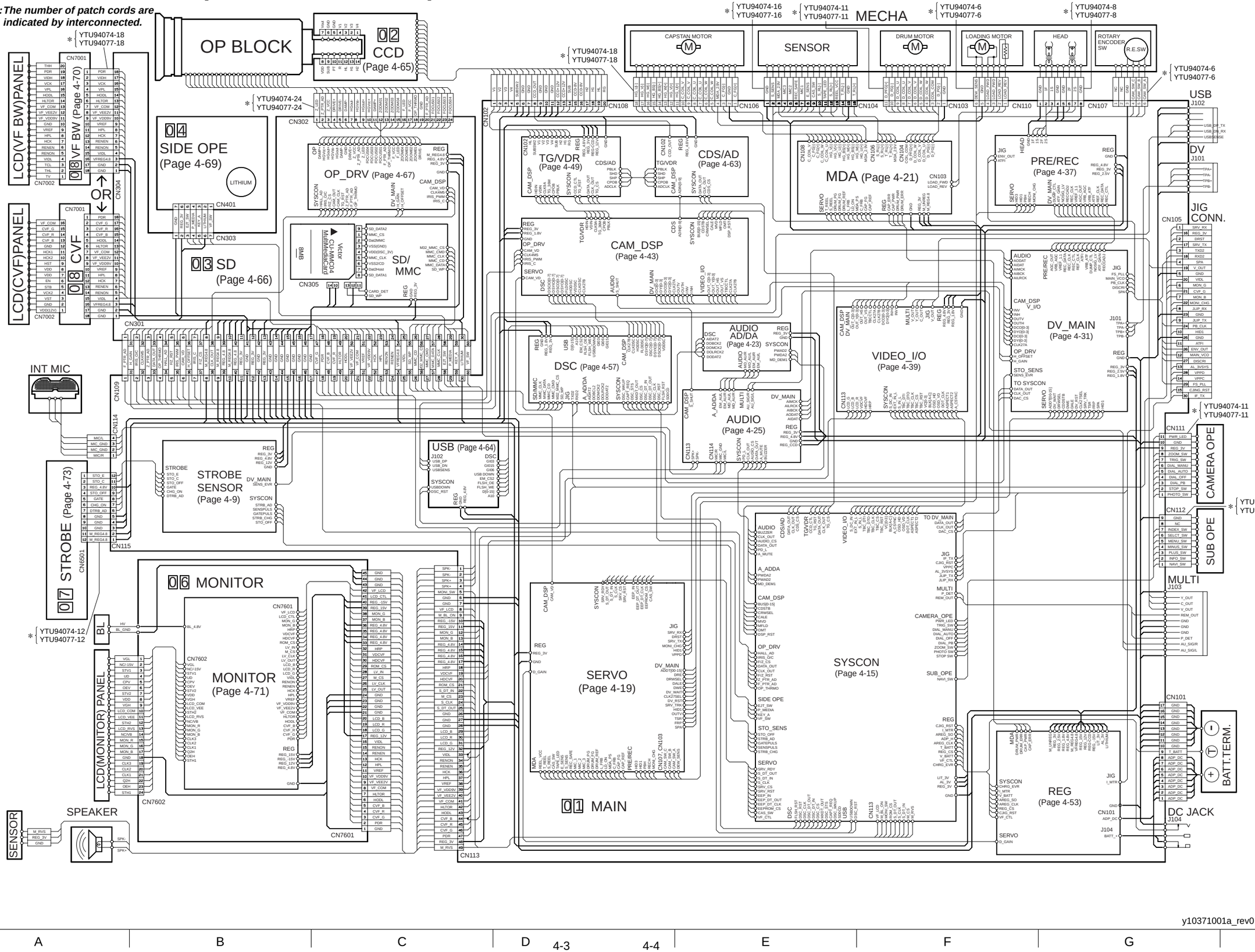
Parts location are indicated by guide scale on the circuit board.



Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

4.1 BOARD INTERCONNECTIONS [FOR MEGA PIXEL with DSC MODEL]

NOTE)✻ :The number of patch cords are indicated by interconnected.



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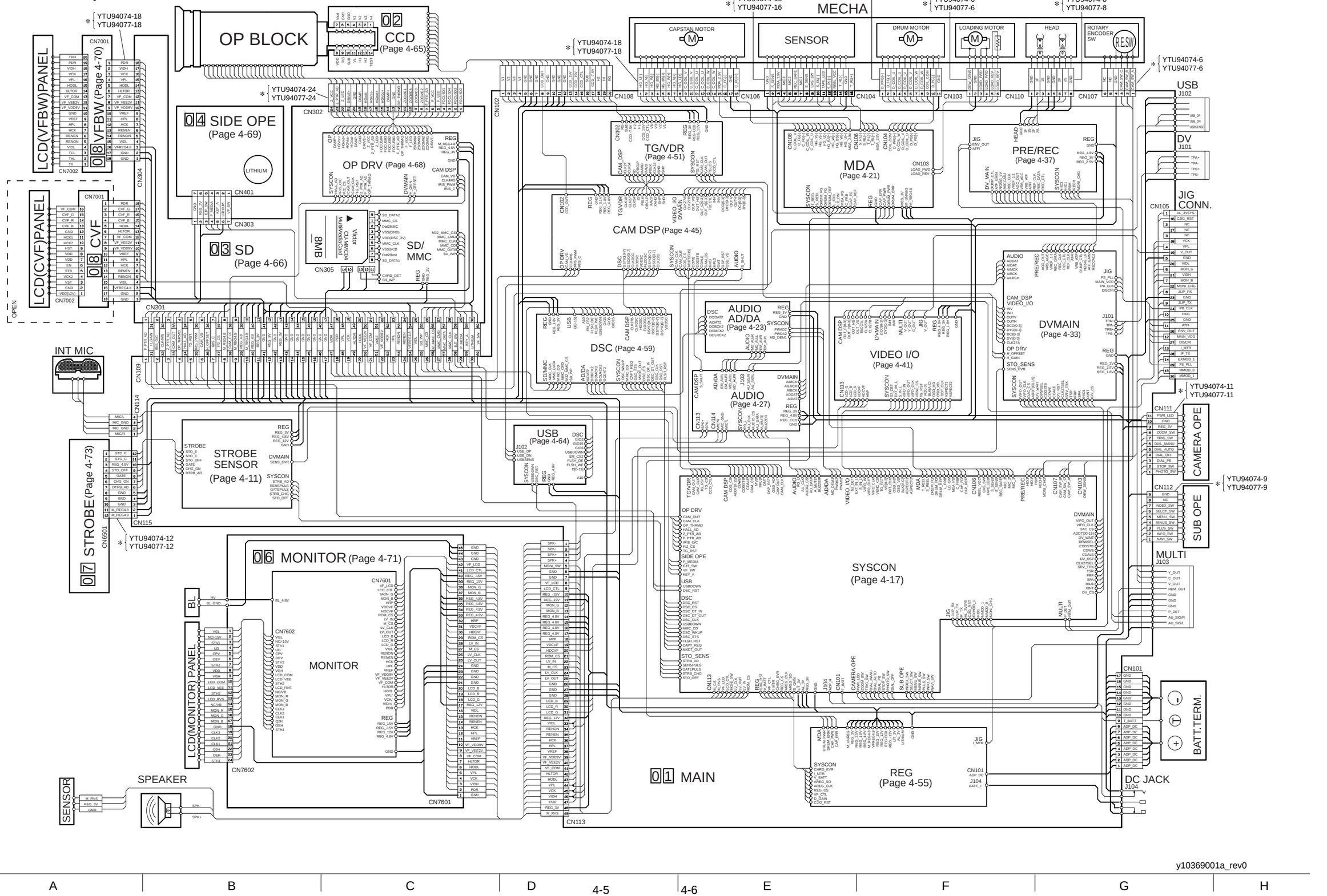
4.2 BOARD INTERCONNECTIONS [FOR NON-MEGA PIXEL with DSC MODEL]

NOTE)✲ : The number of patch cords are indicated by interconnected.



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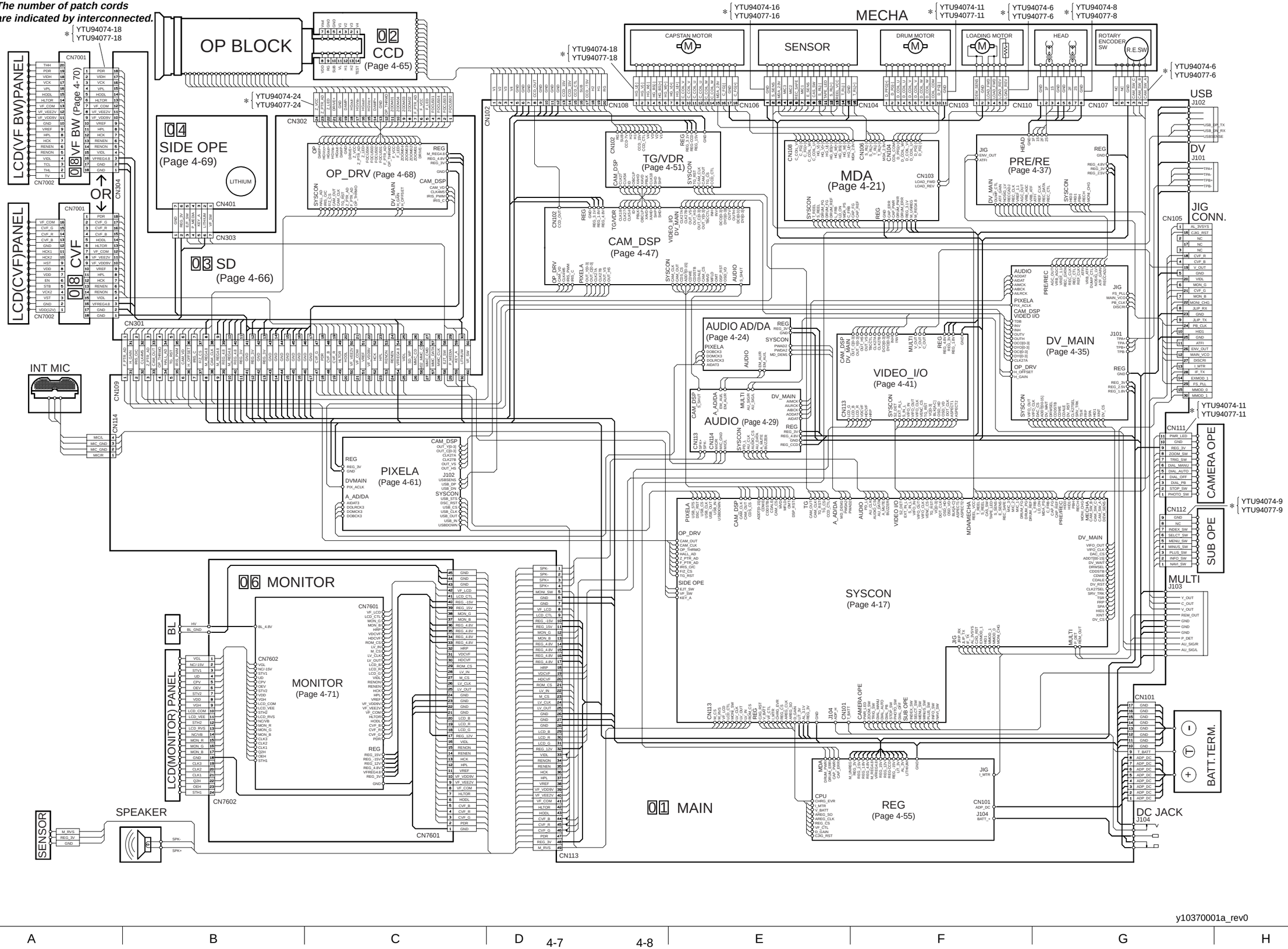
4-5 4-6

4.3 BOARD INTERCONNECTIONS [FOR NON-MEGA PIXEL without DSC MODEL]

NOTE)* : The number of patch cords are indicated by interconnected.



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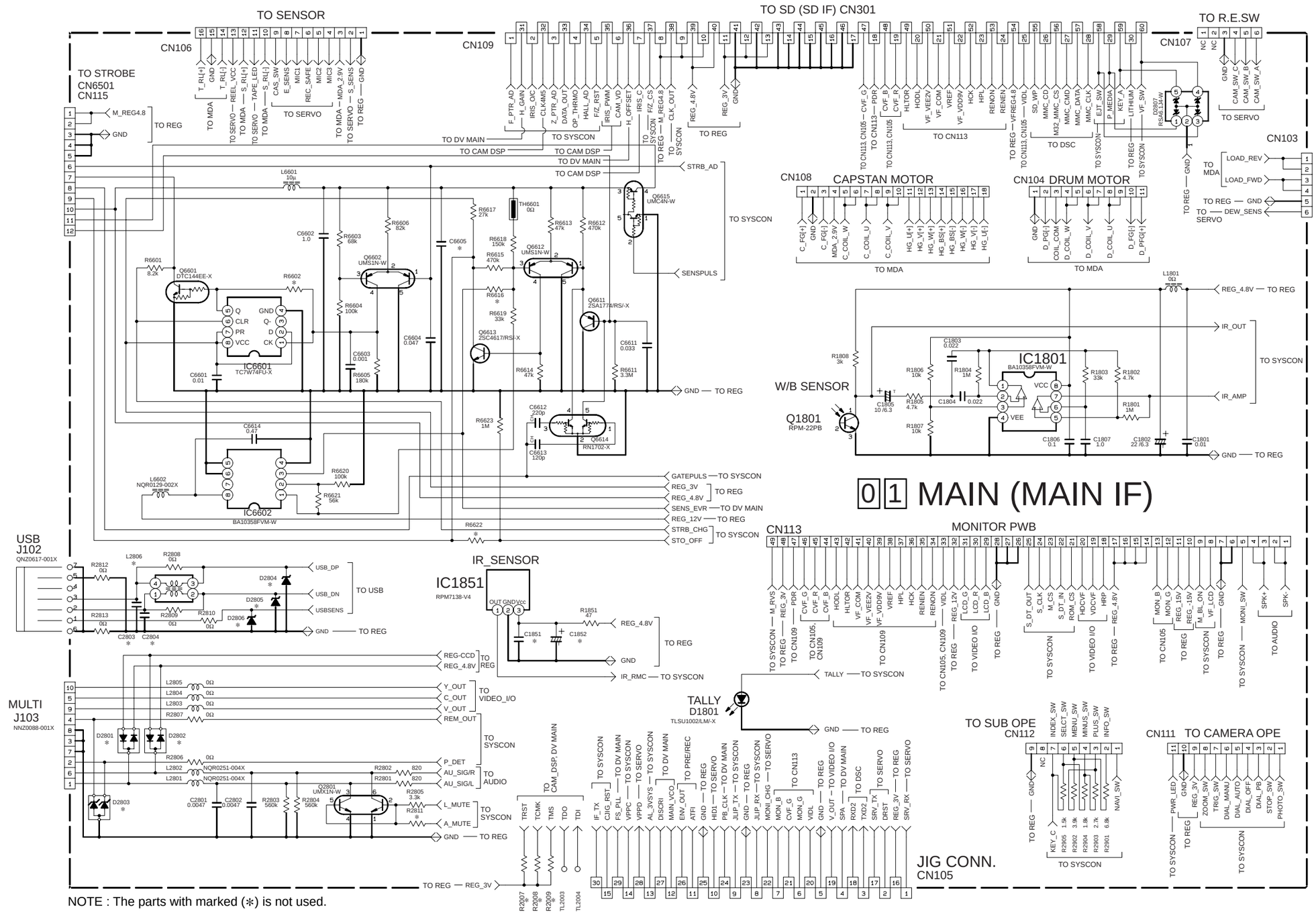
4.4 MAIN(MAIN IF) SCHEMATIC DIAGRAM [FOR MEGA PIXEL with DSC MODEL]



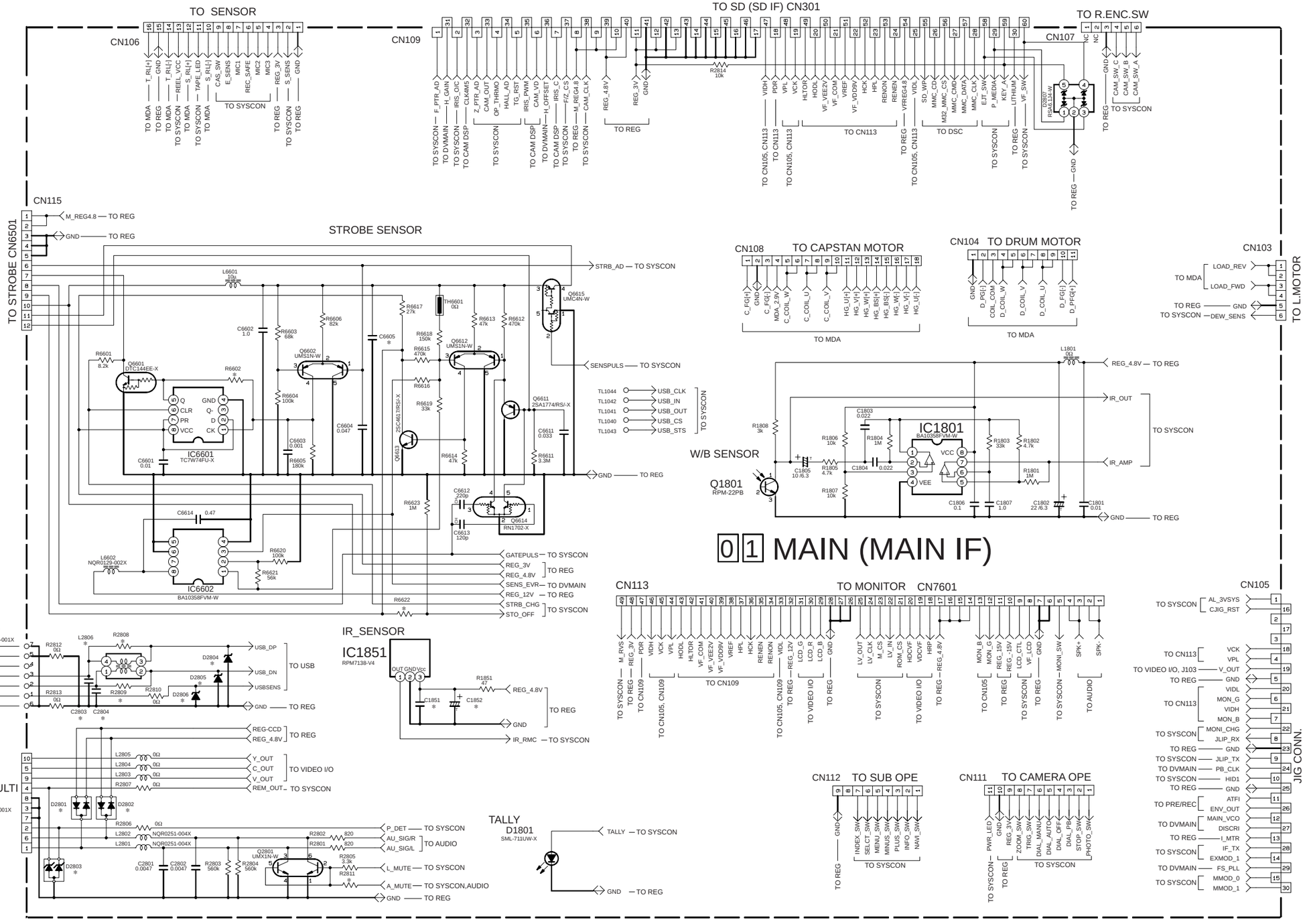
NOTE : The parts with marked (*) is not used.

	Symbol No. 1801 ~ 1850		Symbol No. 1851 ~ 1900		Symbol No. 2001 ~ 2100		Symbol No. 2801 ~ 2950		Symbol No. 6601 ~ 6700	
	LAST No.	VACANT No.	LAST No.	VACANT No.	LAST No.	VACANT No.	LAST No.	VACANT No.	LAST No.	VACANT No.
R	1808		1851		2009	2001-2006	2905	2815-2900	6623	6607~6610,
C	1807		1852		—		2804		6614	6606~6610,
D	1801		—		—		2807		—	
Q	1801		—		—		2801		6615	6603~6610,
L	1801		—		—		2806		6602	
IC	1801		1851		—		—		6602	

NOTES : UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

y20267001a_rev0

4.5 MAIN(MAIN IF) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL with DSC MODEL]



NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

	Symbol No. 1801 ~ 1850		Symbol No. 1851 ~ 1900		Symbol No. 2801 ~ 2900		Symbol No. 6601 ~ 6700	
	LAST No.	VACANT No.	LAST No.	VACANT No.	LAST No.	VACANT No.	LAST No.	VACANT No.
R	1808		1851		2814		6623	6607~6610,
C	1807		1852		2804		6614	6606~6610,
D	1801		—		2807		—	
Q	1801		—		2801		6615	6603~6610,
L	1801		—		2806		6602	
IC	1801		1851		—		6602	

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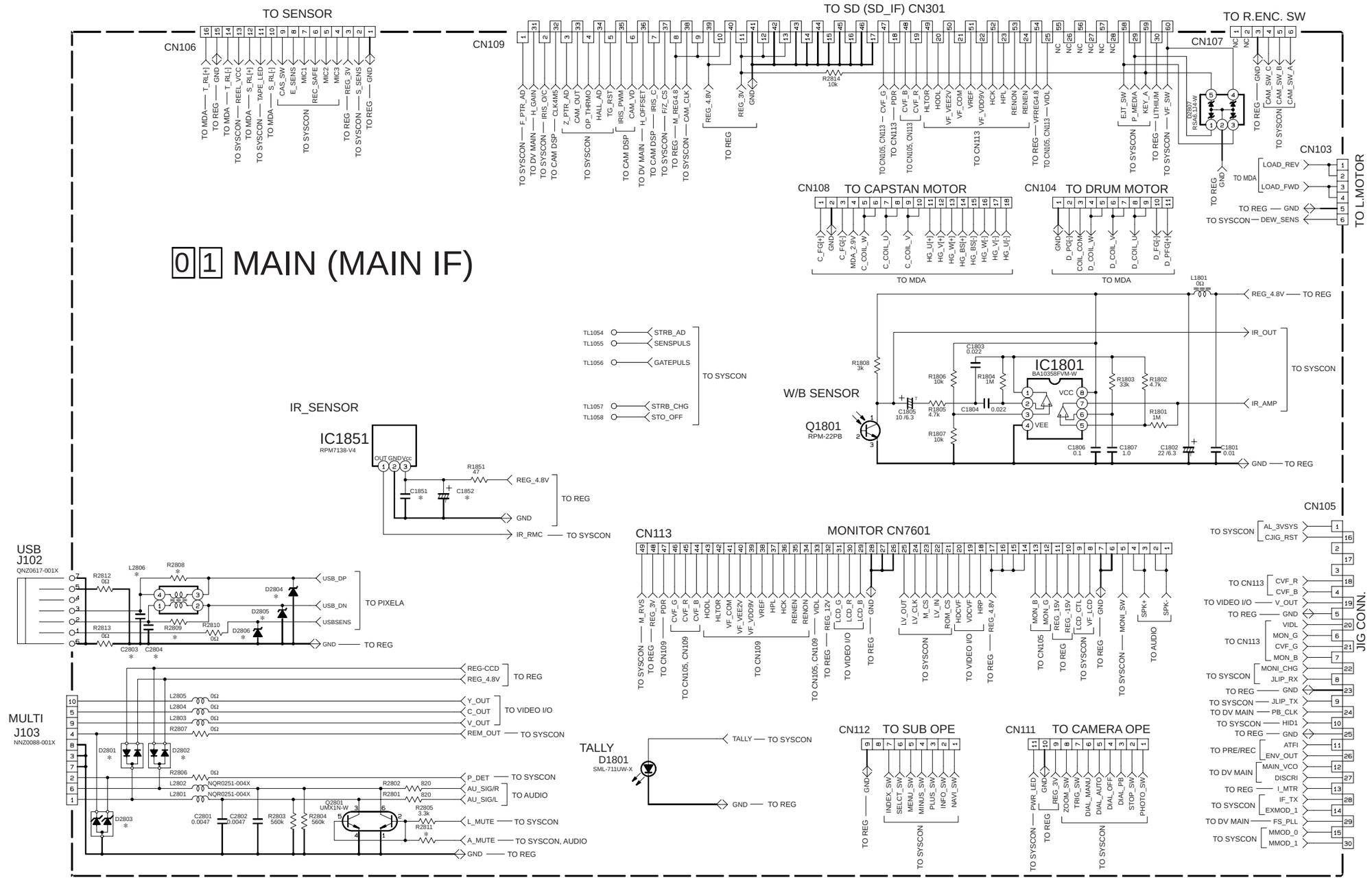
4.6 MAIN(MAIN IF) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL without DSC MODEL]



NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

	Symbol No. 1801 ~ 1850		Symbol No. 1851 ~ 1900		Symbol No. 2801 ~ 2900	
	LAST No.	VACANT No.	LAST No.	VACANT No.	LAST No.	VACANT No.
R	1808		1851		2814	
C	1807		1852		2804	
D	1801		—		2807	
Q	1801		—		2801	
L	1801		—		2806	
IC	1801		1851		—	

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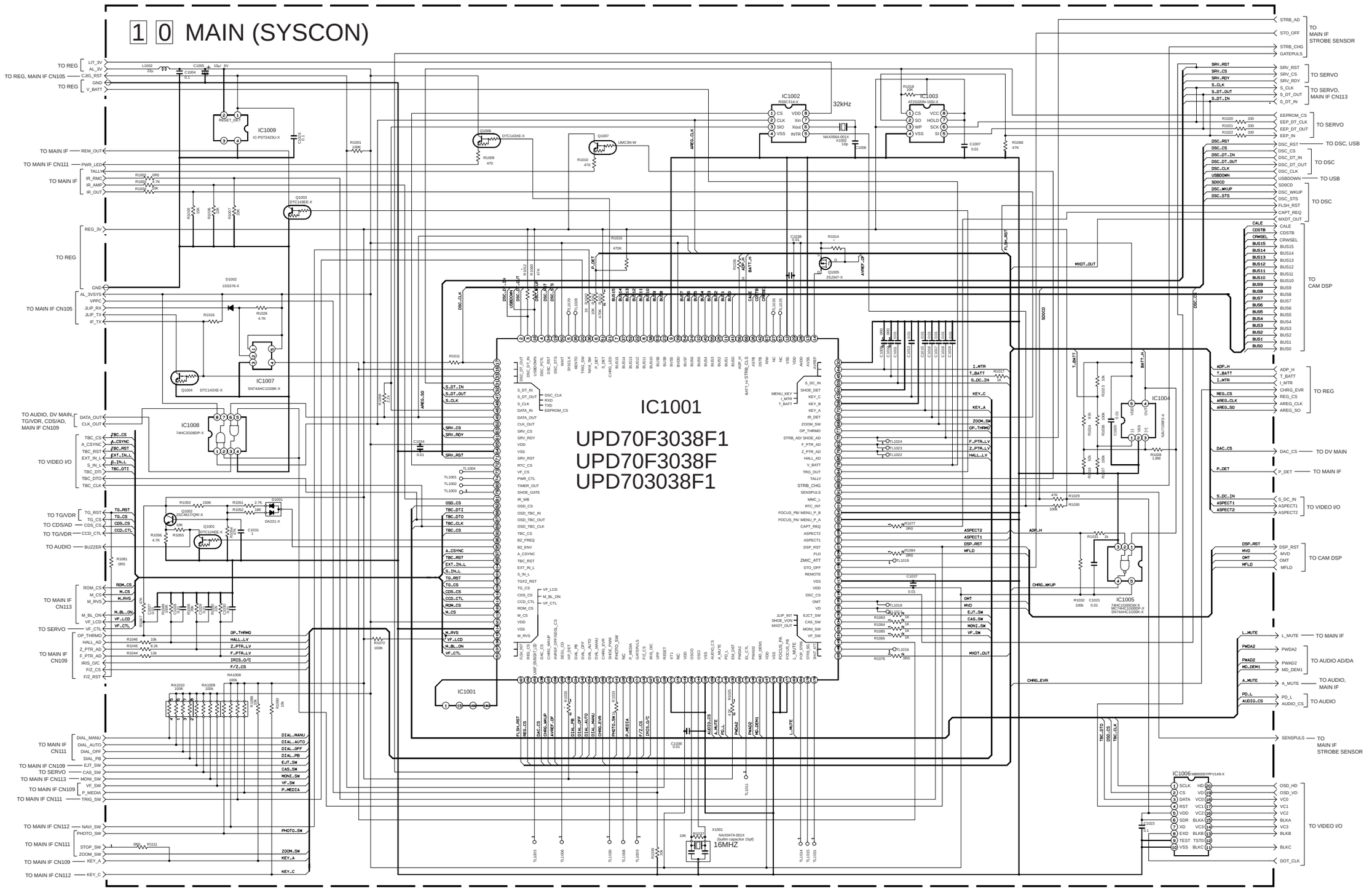
4.7 MAIN(SYSCON) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO	VACANT NO
R	1111
C	1041
D	1002
Q	1007
L	1002
IC	1009
RA	1010

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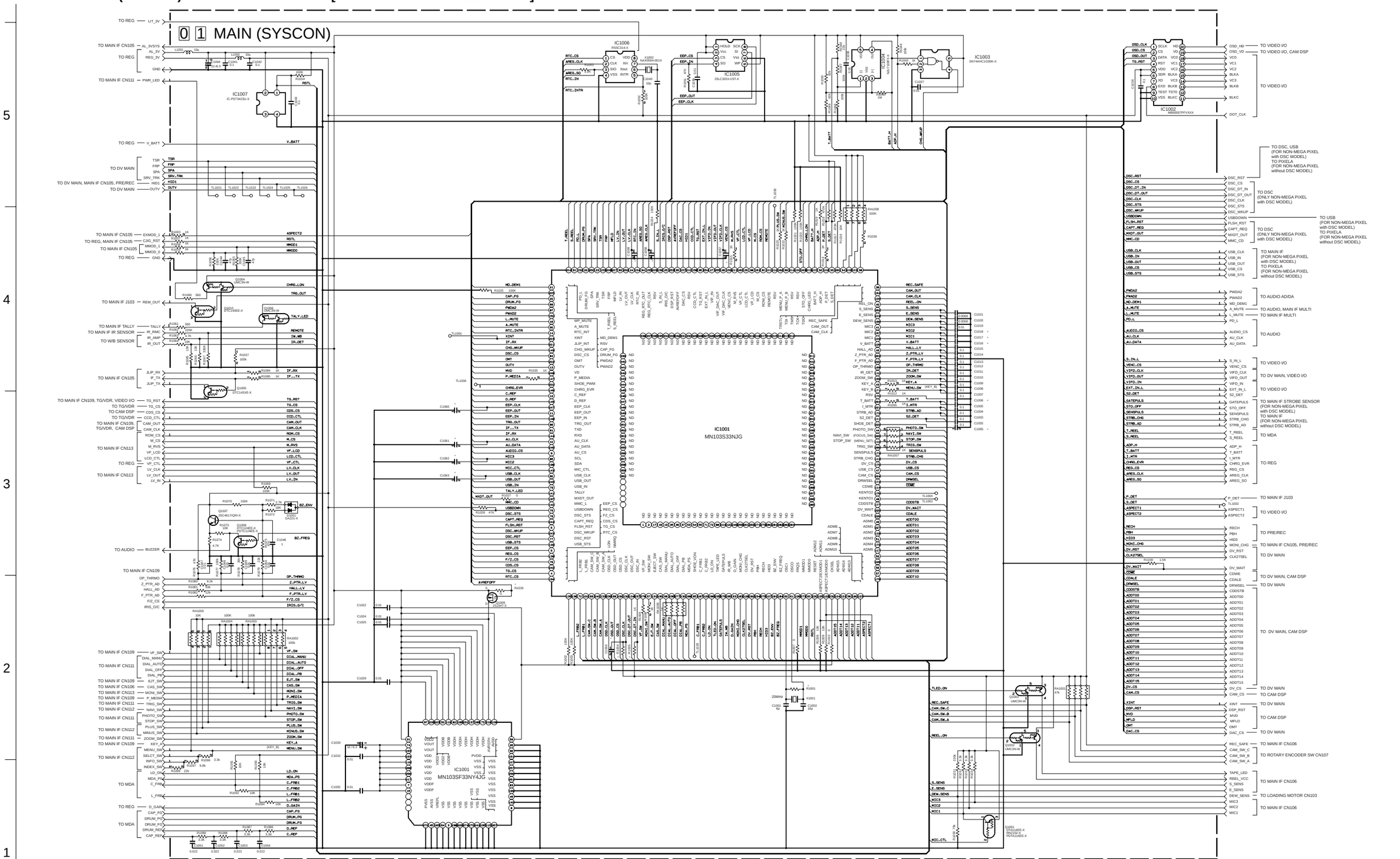
4.8 MAIN(SYSCON) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL MODEL]


0 1 MAIN (SYSCON)
IC1001
MN103SF33NYJG
IC1002
IC1003
IC1004
IC1005
IC1006
IC1007
TO VIDEO I/O
TO VIDEO I/O, CAM DSP
TO DSC, USB (FOR NON-MEGA PIXEL with DSC MODEL) TO PIXELA (FOR NON-MEGA PIXEL without DSC MODEL)
TO DSC (ONLY NON-MEGA PIXEL with DSC MODEL)
TO USB (FOR NON-MEGA PIXEL with DSC MODEL) TO PIXELA (FOR NON-MEGA PIXEL without DSC MODEL)
TO MAIN IF (FOR NON-MEGA PIXEL with DSC MODEL) TO PIXELA (FOR NON-MEGA PIXEL without DSC MODEL)
TO AUDIO AD/DA
TO AUDIO, MAIN IF MULTI
TO MAIN IF MULTI
TO AUDIO
TO VIDEO I/O
TO DV MAIN, VIDEO I/O
TO VIDEO I/O
TO MAIN IF STROBE SENSOR (FOR NON-MEGA PIXEL with DSC MODEL) TO MAIN IF (FOR NON-MEGA PIXEL without DSC MODEL)
TO MDA
TO REG
TO MAIN IF J103
TO VIDEO I/O
TO PRE/REC
TO MAIN IF CN105, PRE/REC
TO DV MAIN
TO DV MAIN, CAM DSP
TO DV MAIN
TO DV MAIN, CAM DSP
TO DV MAIN
TO CAM DSP
TO DV MAIN
TO MAIN IF CN106
TO ROTARY ENCODER SW CN107
TO MAIN IF CN106
TO LOADING MOTOR CN103
TO MAIN IF CN106

NOTE : The parts with marked (*) is not used.

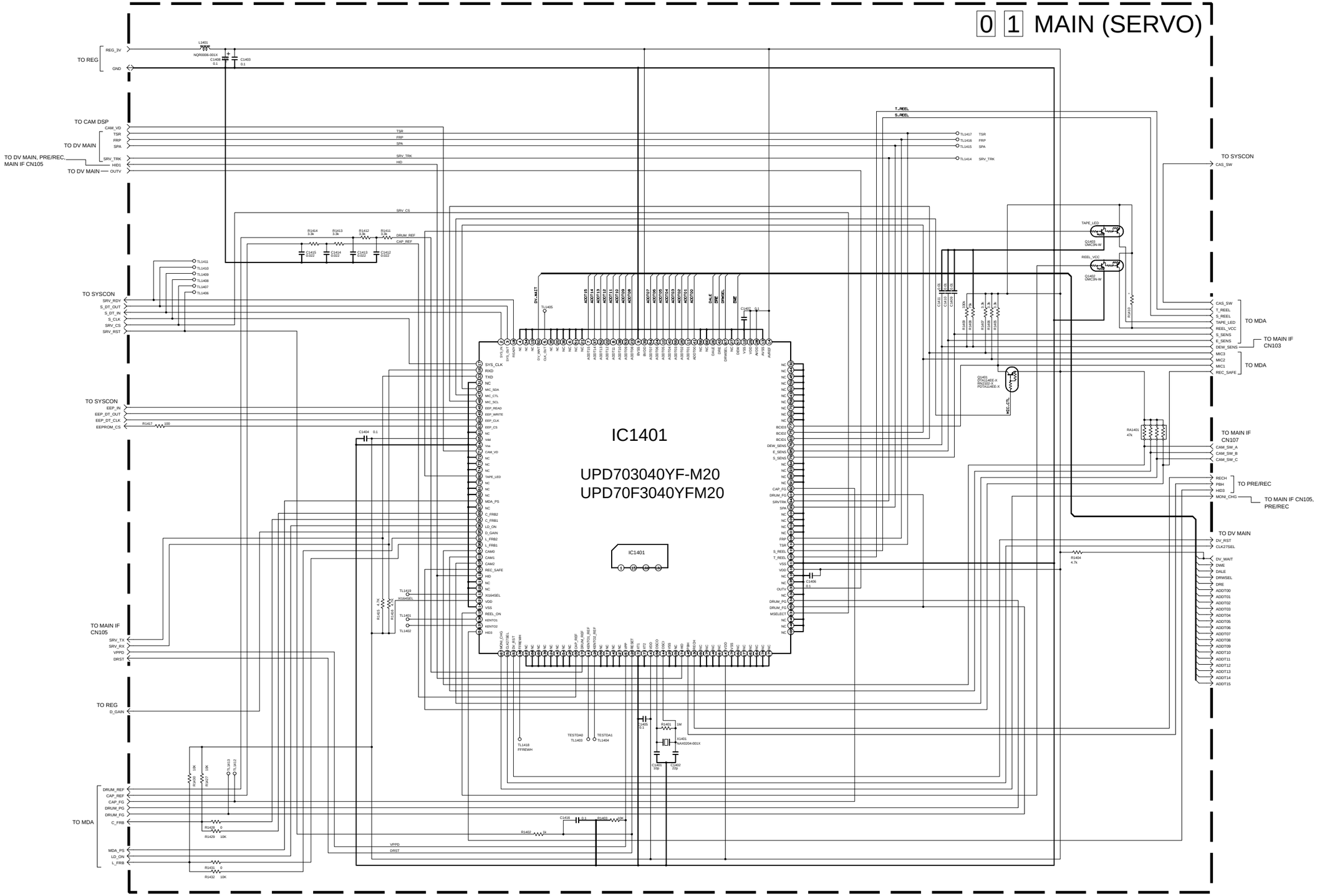
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

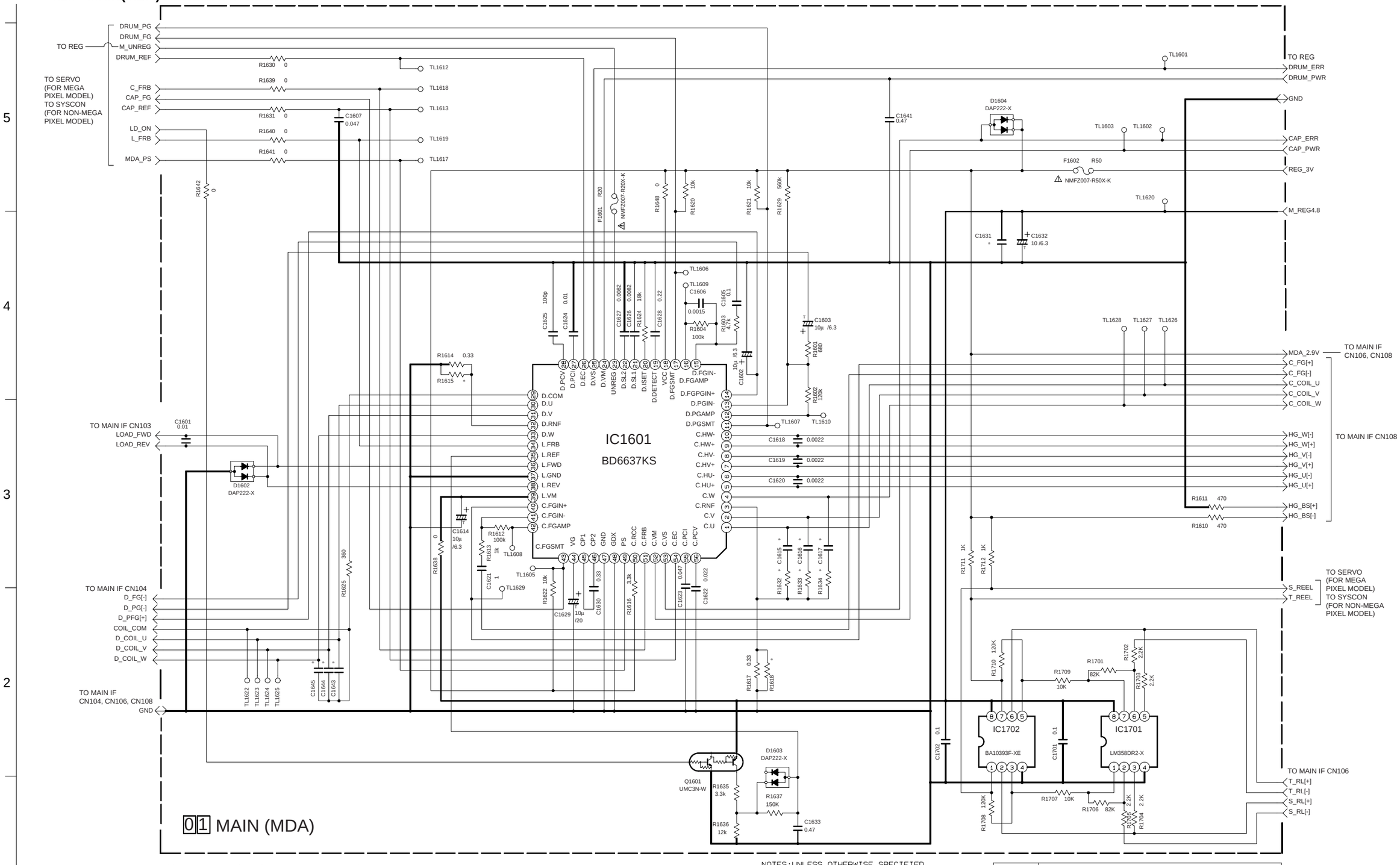
LAST NO	VACANT NO
R	1099 1011, 1028, 1038, 1040, 1041, 1042, 1042,
C	1065 1023, 1026, 1027, 1029, 1031, 1033, 1034.
D	1001
Q	1010
L	1002
IC	1007
RA	1008
TL	1039

y10372001a_rev0

4.9 MAIN(SERVO) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



4.10 MAIN(MDA) SCHEMATIC DIAGRAM



NOTE : The parts with marked (∗) is not used.

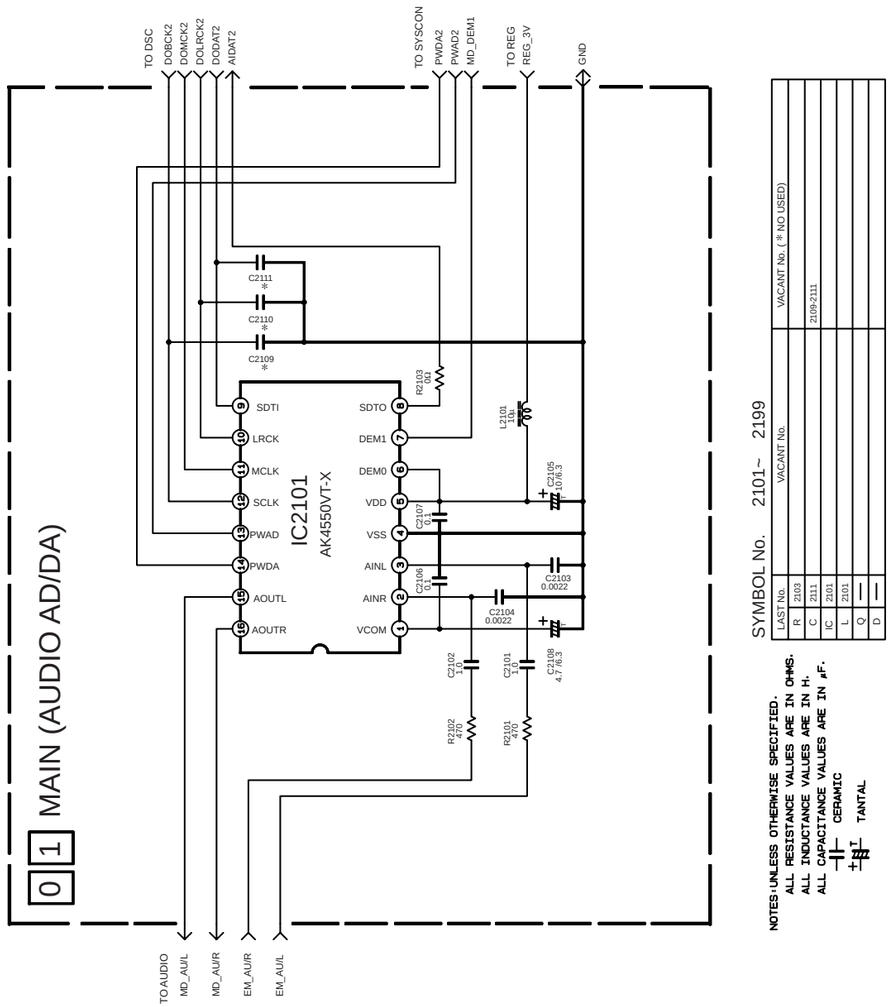
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO		VACANT NO
R	1712	1605-1609,1619,1623,1626-1628,1643-1647,1649-1700
C	1702	1604,1608-1613,1634-1640,1642,1646-1700
D	1604	1601
Q	1601	
L	—	
IC	1702	1602-1700
F	1602	

y20268001a_rev0

4.11 MAIN(AUDIO AD/DA) SCHEMATIC DIAGRAM [FOR with DSC MODEL]



VACANT No. (* NO USED)

SYMBOL No. 2101~ 2199

VACANT No.

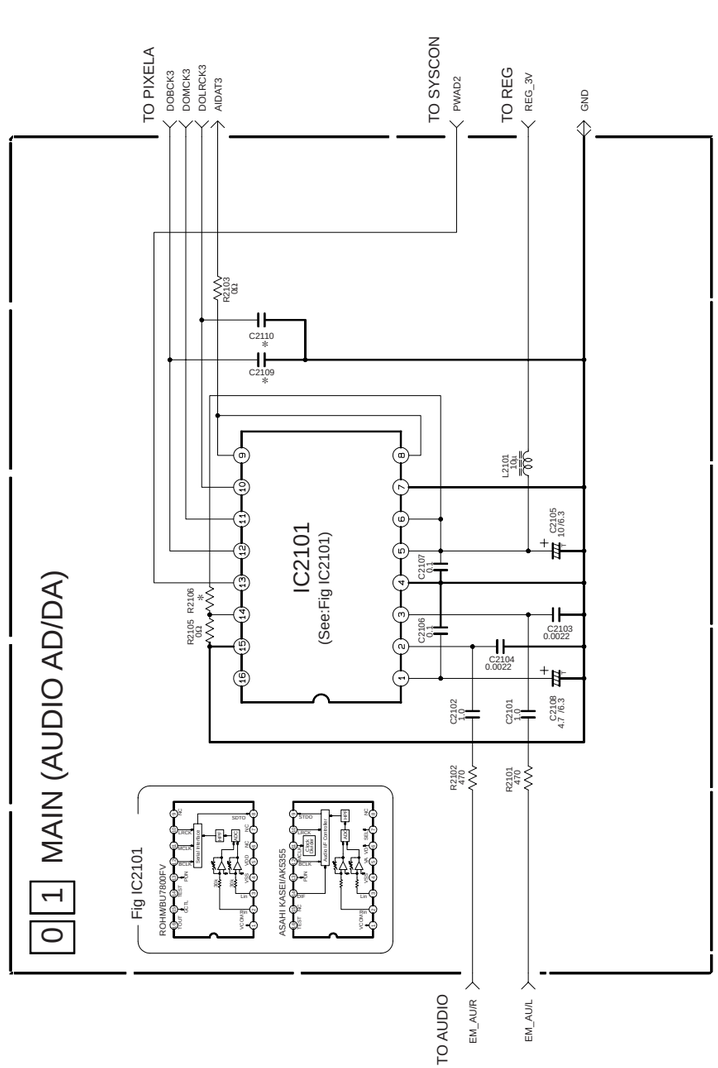
LAST No.	VACANT No.
R	2103
C	2111
IC	2101
L	2101
Q	—
D	—

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
CERAMIC
TANTAL

NOTE : The parts with marked (*) is not used.

y30239001a_rev0

4.12 MAIN(AUDIO AD/DA) SCHEMATIC DIAGRAM [FOR without DSC MODEL]



VACANT No.(NO&WEAR)

SYMBOL No. 2101~ 2199

VACANT No.

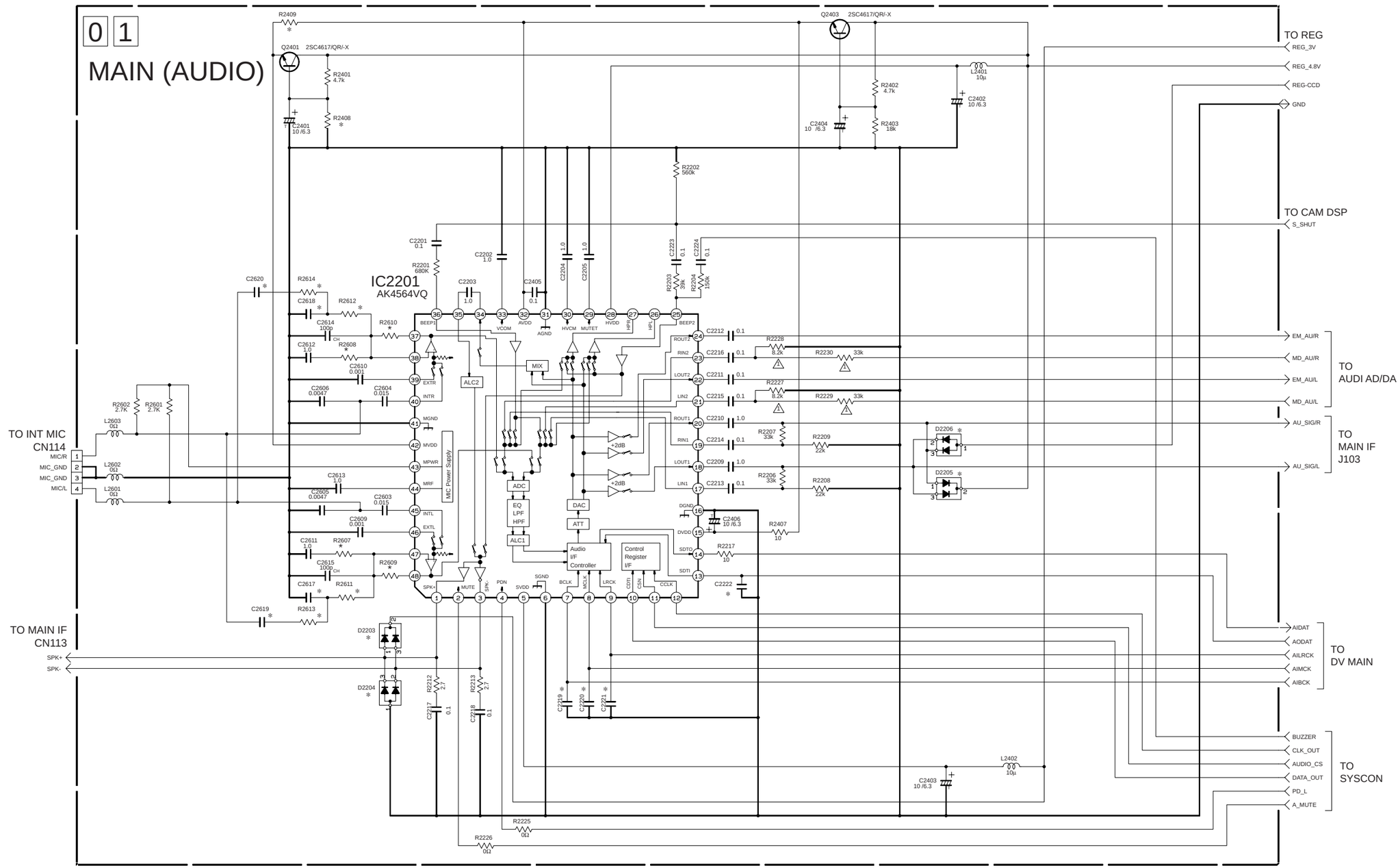
LAST No.	VACANT No.
R	2106
C	2110
IC	2101
L	2101
Q	—
D	—

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
CERAMIC
TANTAL

NOTE : The parts with marked (*) is not used.

y30240001a_rev0

4.13 MAIN(AUDIO) SCHEMATIC DIAGRAM [FOR MEGA PIXEL with DSC MODEL]



NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
CERAMIC TANTAL

* VALUE CHANGE

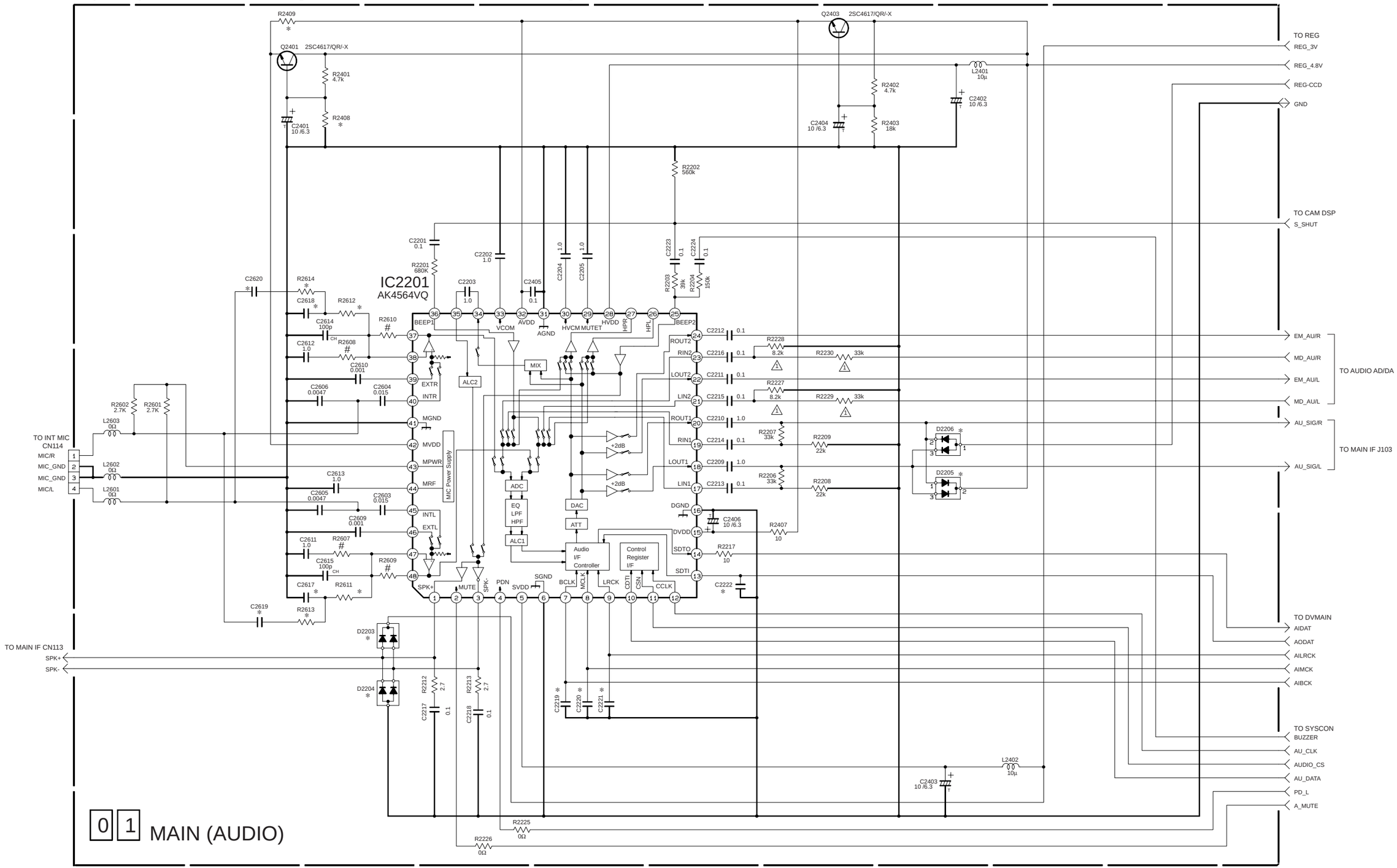
*	NTSC	PAL
R2607	2.2K	22K
R2608	2.2K	22K
R2609	22K	220K
R2610	22K	220K

SYMBOL No. 2201-2699

LAST No.		VACANT No.	VACANT No.(NO MWEAR)
R	2614	2205 2210-2211 2214-2216 2218-2224 2231-2400 2404-2406 2410-2600 2603-2606	2611-2614 2408-2409
C	2620	2206-2208 2225-2400 2407-2602 2616	2219-2222 2617-2620
IC	2201		
L	2603	2201-2400 2403-2600	
Q	2403	2201-2400 2402	
D	2206	2201-2202	2203-2206

y20271001a_rev0

4.14 MAIN(AUDIO) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL with DSC MODEL]



NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
CERAMIC TANTAL

EXCHANGE PARTS LIST

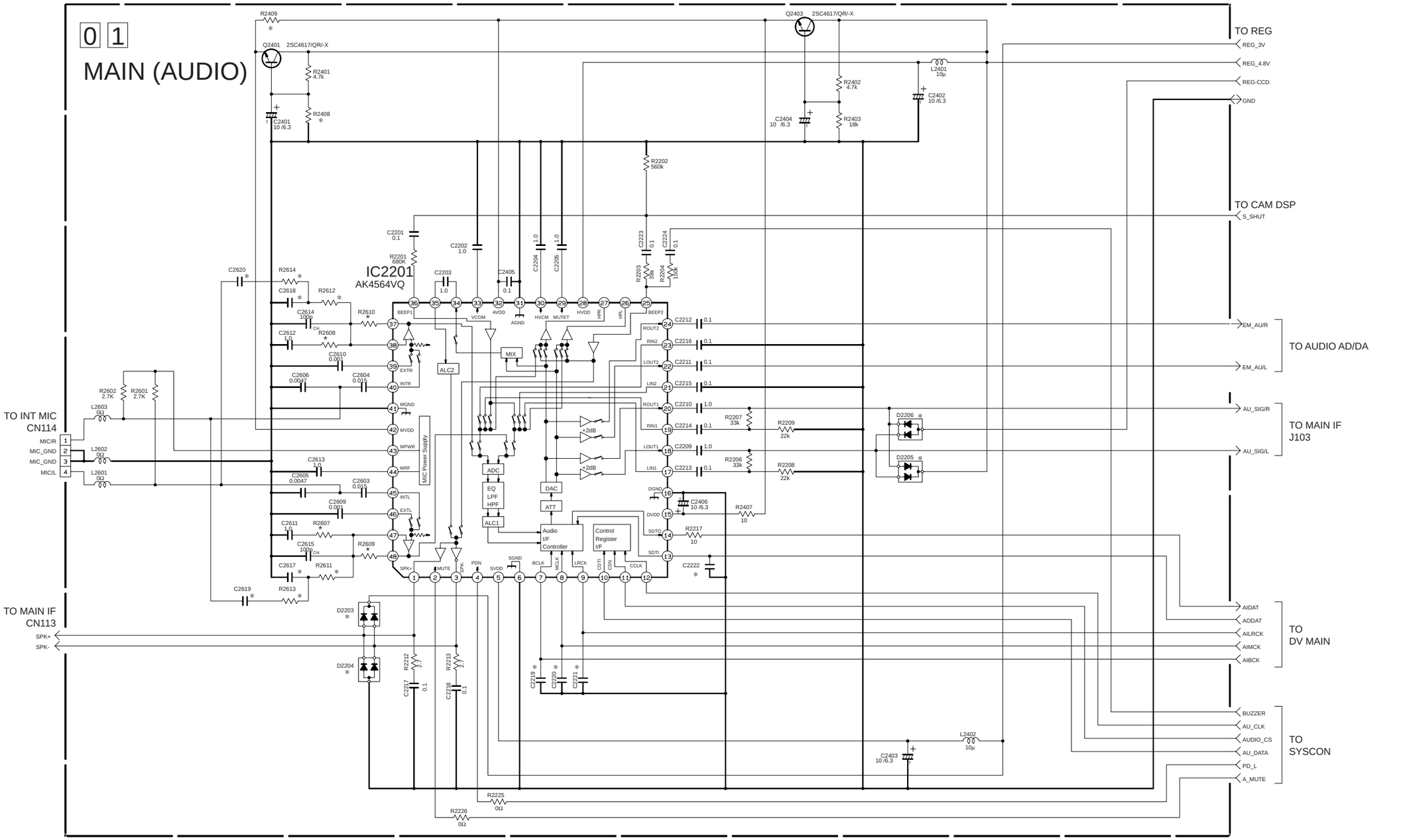
	R2607	R2608	R2609	R2610
NTSC	2.2K	2.2K	22K	22K
PAL	22K	22K	220K	220K

SYMBOL No. 2201-2699

LAST No.		VACANT No.	VACANT No. (* NOT USED)
R	2614	2205 2210-2211 2214-2216 2218-2224 2231-2400 2404-2406 2410-2600 2603-2606	2611-2614 2408-2409
C	2620	2206-2208 2225-2400 2407-2602 2616	2219-2222 2617-2620
IC	2201		
L	2603	2201-2400 2403-2600	
Q	2403	2201-2400 2402	
D	2206	2201-2202	2203-2206

y20269001a_rev0

4.15 MAIN(AUDIO) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL without DSC MODEL]



NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
CERAMIC TANTAL

∗ VALUE CHANGE

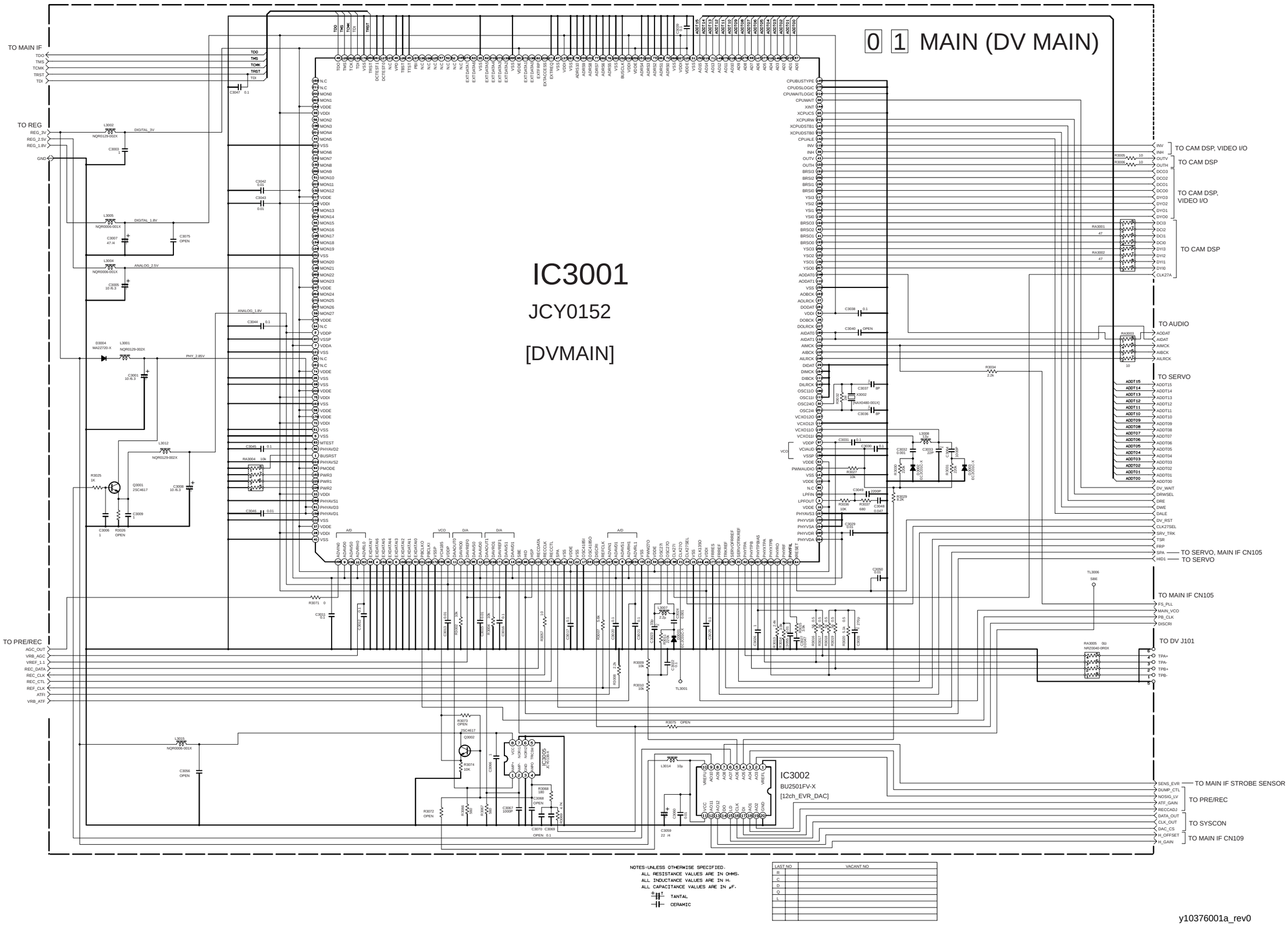
∗	NTSC	PAL
R2607	2.2K	22K
R2608	2.2K	22K
R2609	22K	220K
R2610	22K	220K

SYMBOL No. 2201-2699

LAST No.		VACANT No.	VACANT No.(NO MEAR)
R	2614	2205 2210-2211 2214-2216 2218-2224 2227-2400 2404-2406 2410-2600 2603-2606	2611-2614 2408-2409
C	2620	2206-2208 2225-2400 2407-2602 2616	2219-2222 2617-2620
IC	2201		
L	2603	2201-2400 2403-2600	
Q	2403	2201-2400 2402	
D	2206	2201-2202	2203-2206

y20270001a_rev0

4.16 MAIN(DV MAIN) SCHEMATIC DIAGRAM [FOR MEGA PIXEL with DSC MODEL]

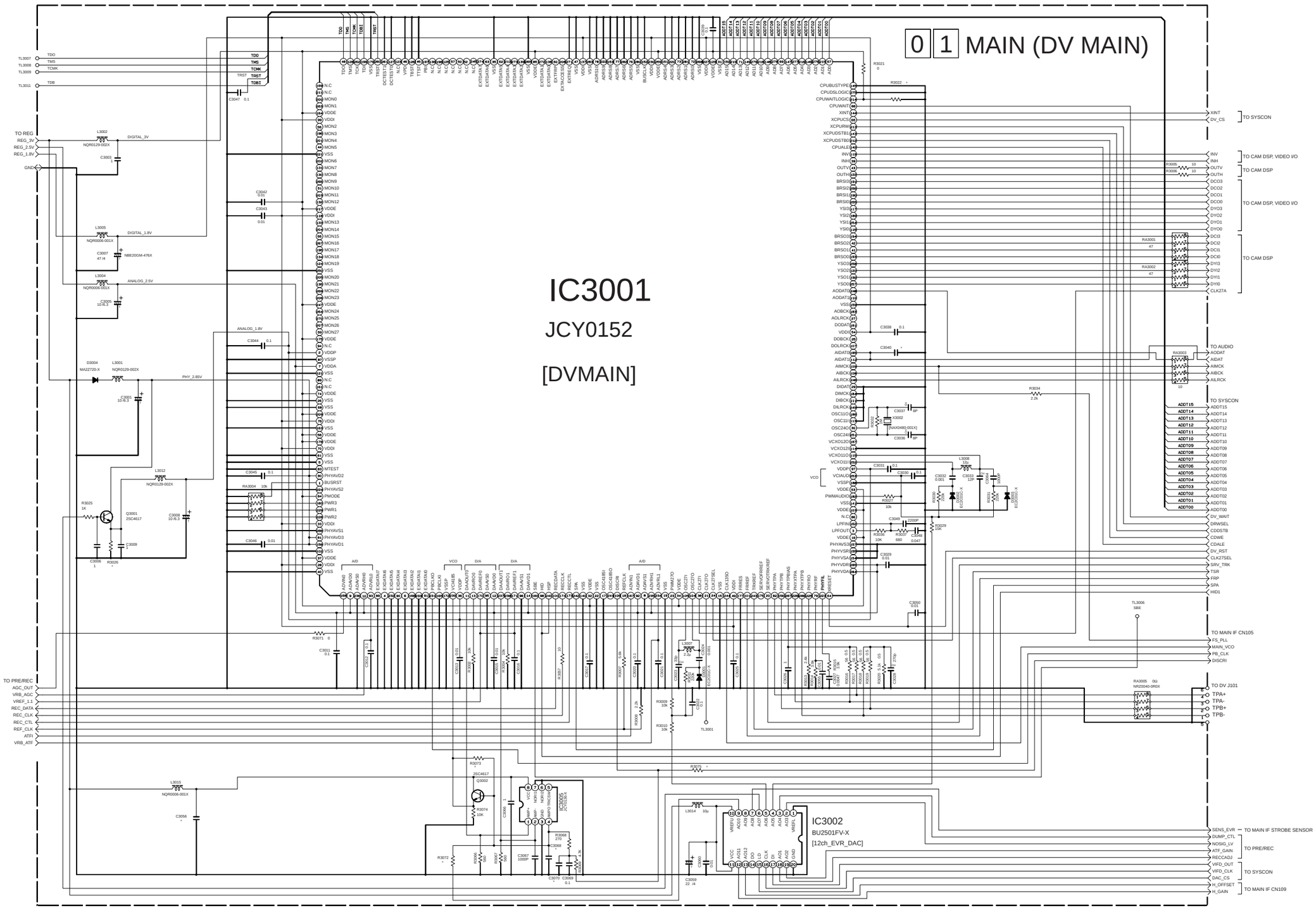


NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO	VACANT NO
R	
C	
D	
Q	
L	

y10376001a_rev0

4.17 MAIN(DV MAIN) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL with DSC MODEL]

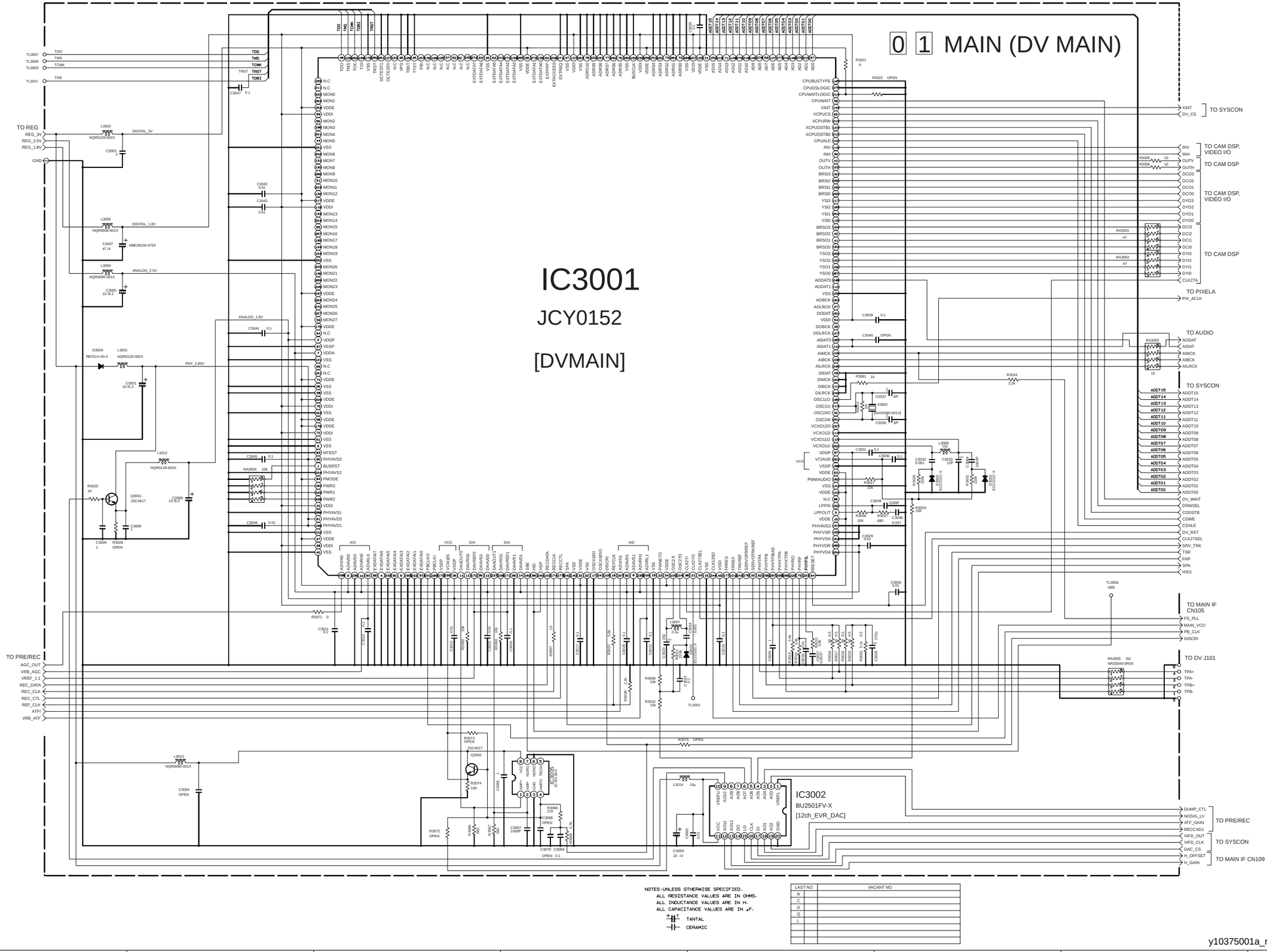


NOTE : The parts with marked (⁎) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

y10374001a_rev0

4.18 MAIN(DV MAIN) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL withput DSC MODEL]

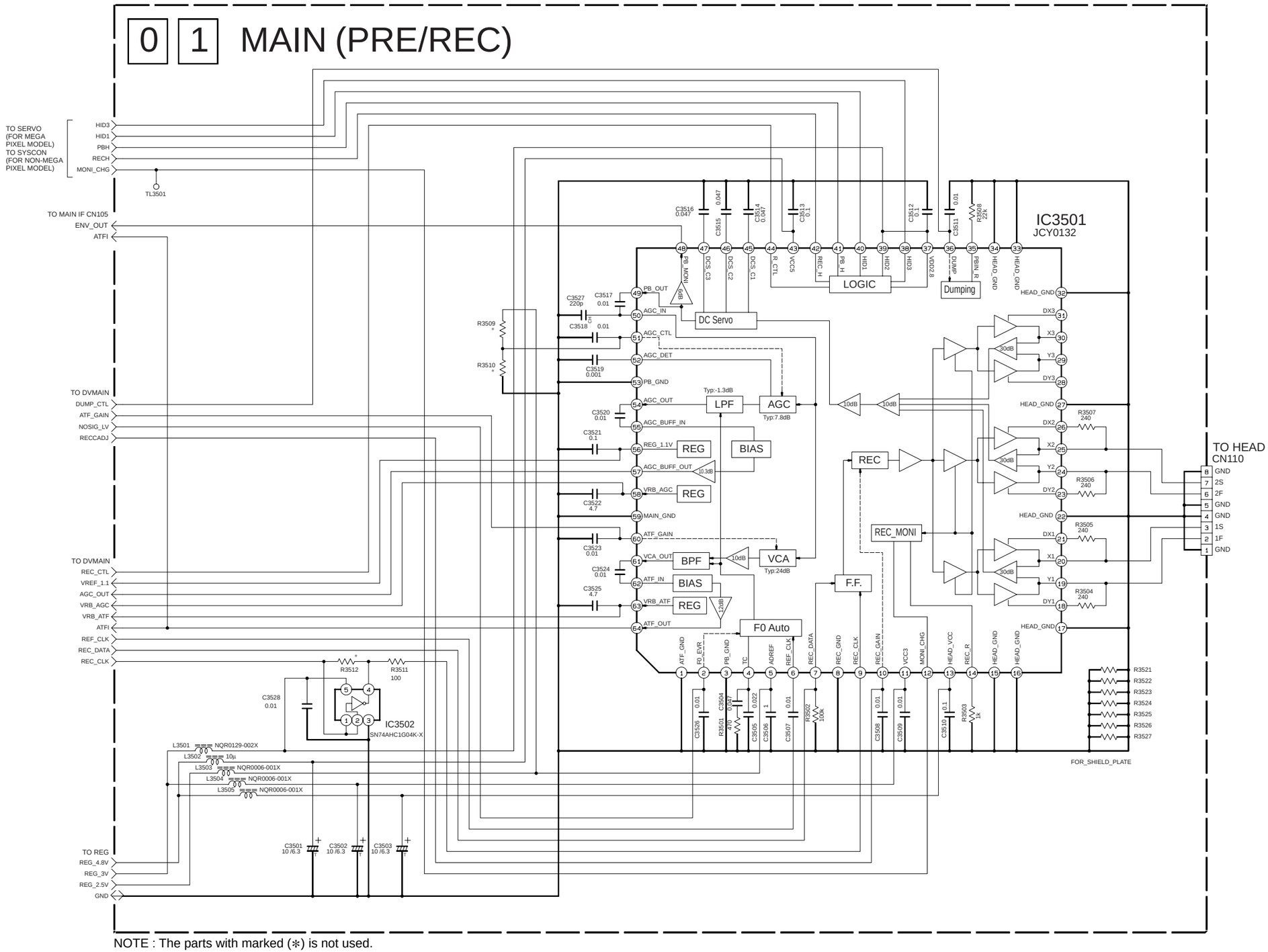


NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO	VACANT NO
R	
C	
D	
Q	
L	

y10375001a_rev0

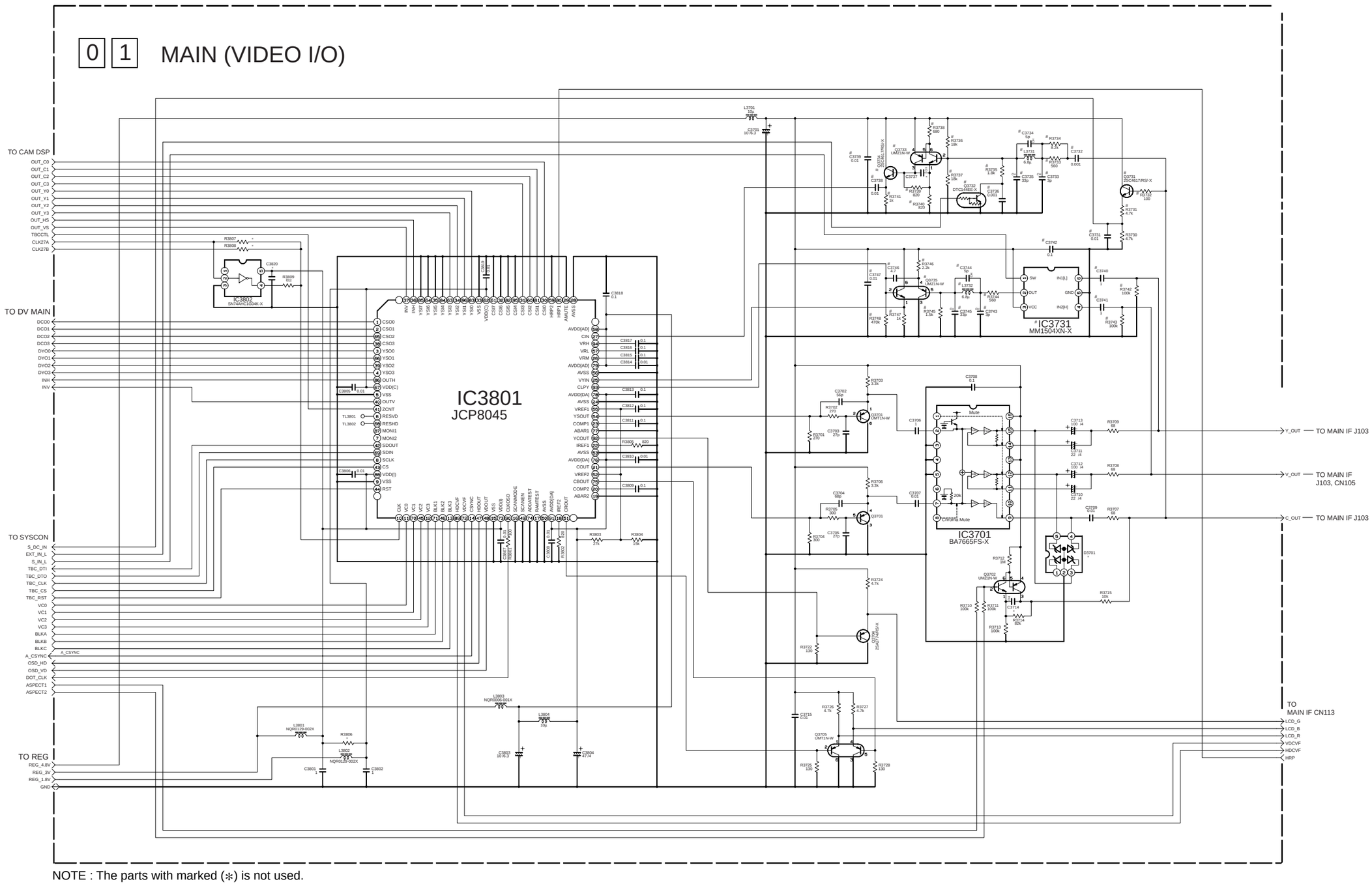
4.19 MAIN(PRE/REC) SCHEMATIC DIAGRAM



NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

y20272001a_rev0

4.20 MAIN(VIDEO I/O) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



NOTE : The parts with marked (⁎) is not used.

#: EXCHANGE PARTS LIST

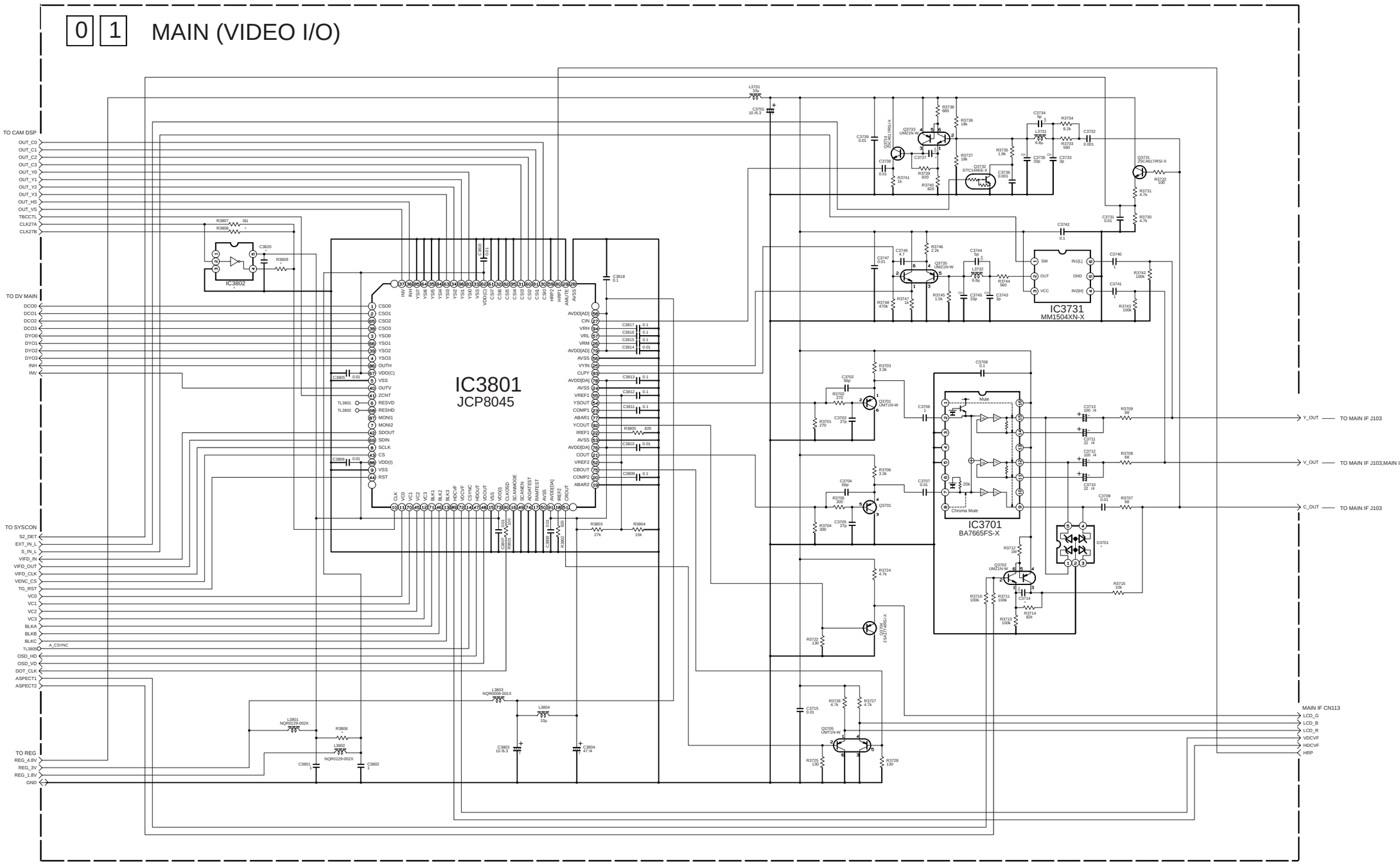
	WITH ANALOG INPUT	WITHOUT ANALOG INPUT
IC3731	WARE	NO WARE
Q3731-Q3735	WARE	NO WARE
L3731,L3732	WARE	NO WARE
R3731-R3748	WARE	NO WARE
C3731-C3747	WARE	NO WARE

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO	VACANT NO
R	
C	
D	
Q	
L	

y20274001a_rev0

4.21 MAIN(VIDEO I/O) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL MODEL]



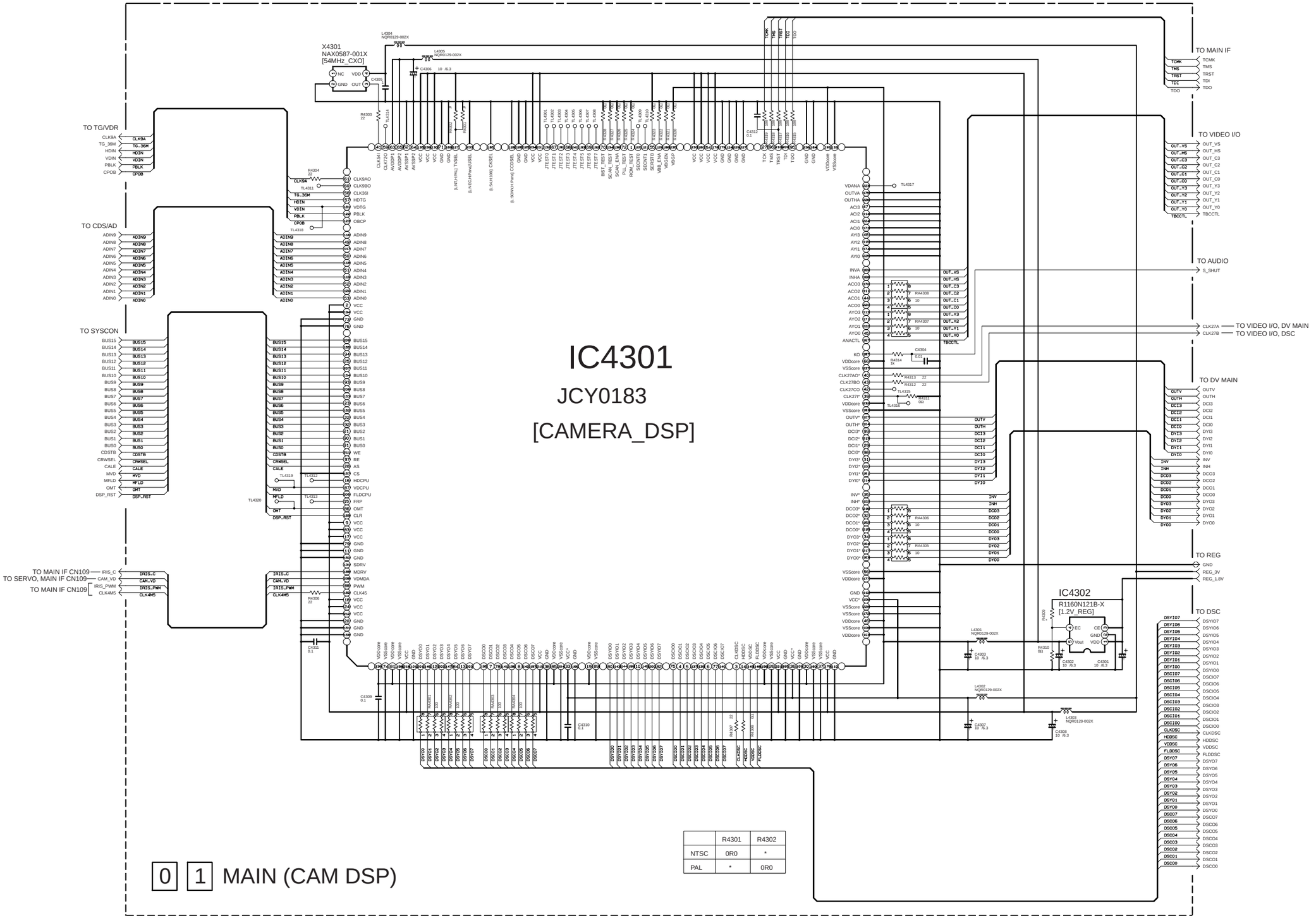
NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO		VACANT NO
R		
C		
D		
Q		
L		

y20273001a_rev0

4.22 MAIN(CAM DSP) SCHEMATIC DIAGRAM [FOR MEGA PIXEL with DSC MODEL]



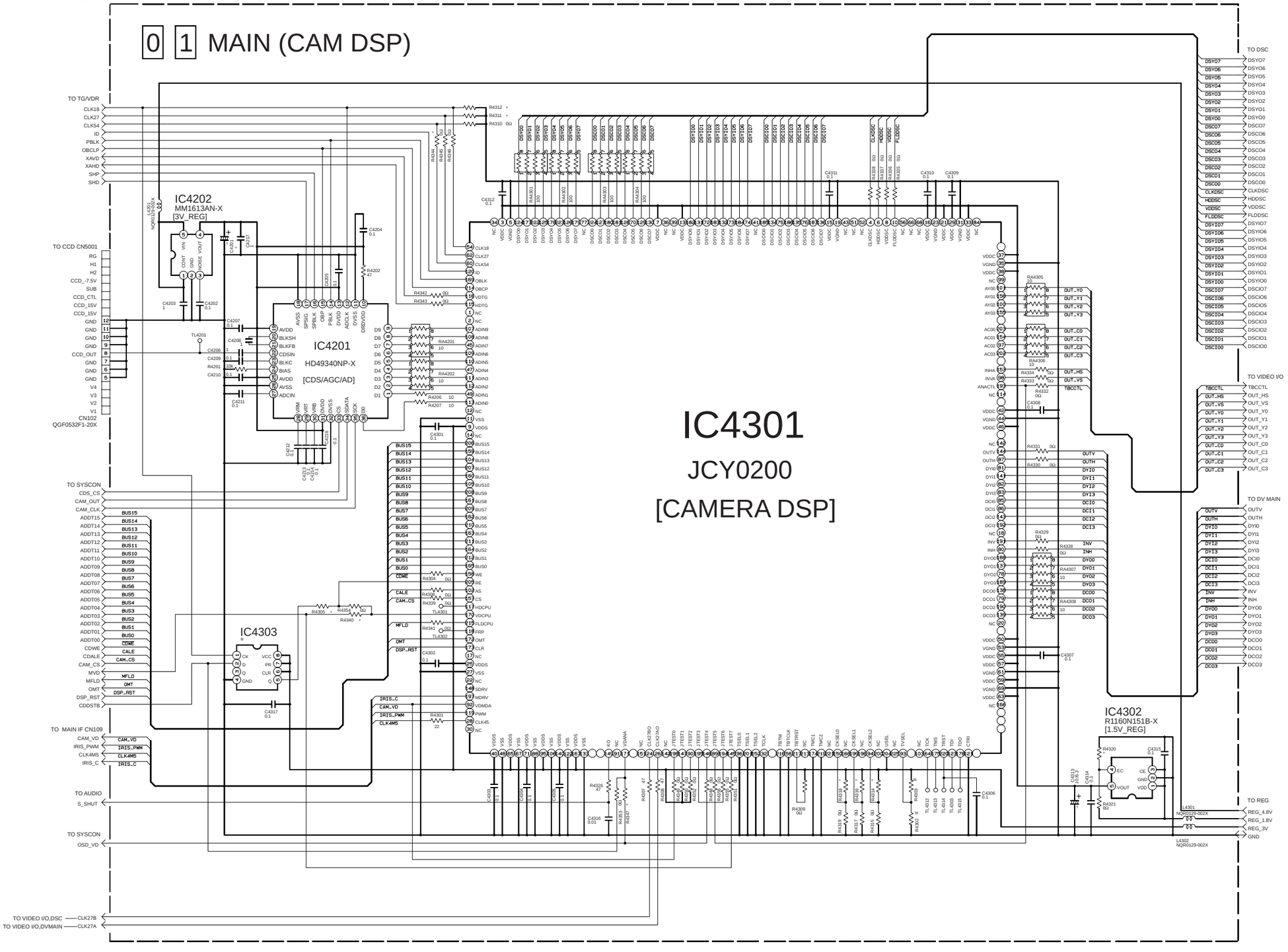
	R4301	R4302
NTSC	0R0	*
PAL	*	0R0

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO	VACANT NO
R	4328 4305
C	4312
RA	4308
IC	4302
L	4305
X	4301

y10379001a_rev0

4.23 MAIN(CAM DSP) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL with DSC MODEL]



NOTE : The parts with marked (∗) is not used.

	R4302	R4303
NTSC	0Ω	OPEN
PAL	OPEN	0Ω

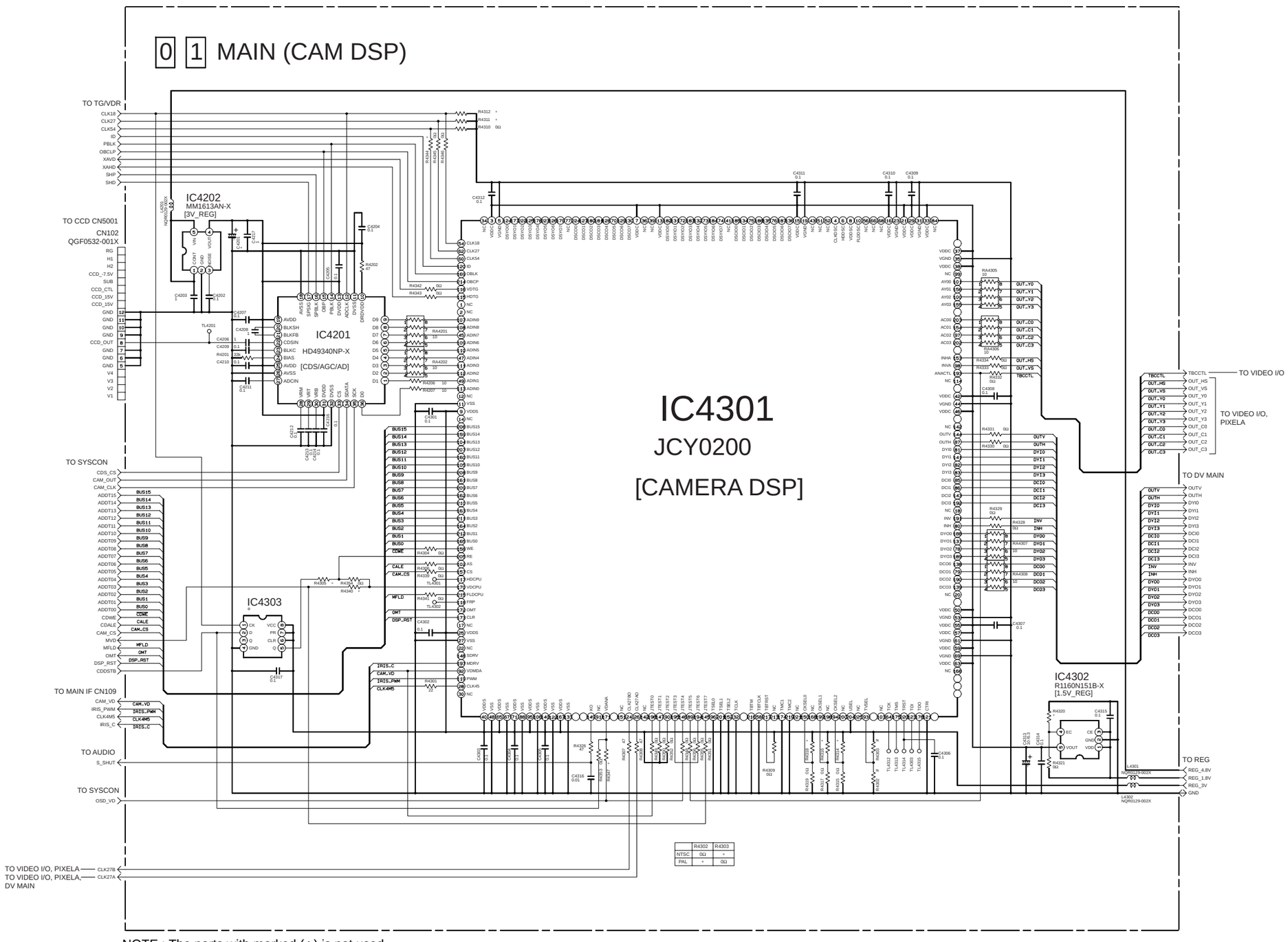
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

	CDS/AD		CAMDSP	
	LAST NO	VACANT NO	LAST NO	VACANT NO
R	4207	4203-4205	4356	4313 4322-4325 4327
C	4217	4215	4317	
L	4201		4302	
IC	4202		4303	
RA	4202		4308	
CN	102			

y10377001a_rev0

4.24 MAIN(CAM DSP) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL without DSC MODEL]



	R4302	R4303
NTSC	0Ω	*
PAL	*	0Ω

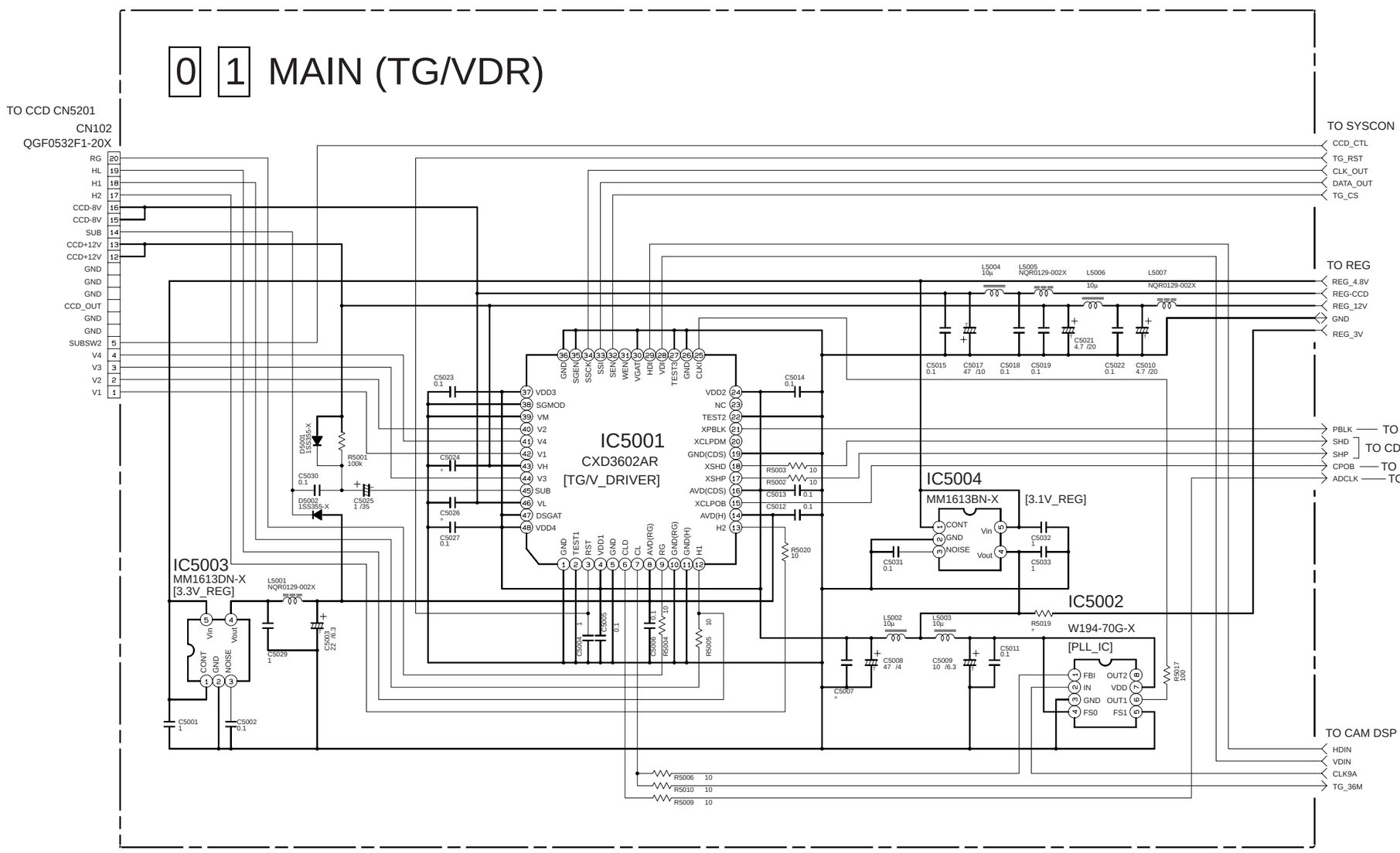
NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

	CDS/AD		CAMDSP	
	LAST NO	VACANT NO	LAST NO	VACANT NO
R	4207	4203-4205	4356	4313 4322-4325 4327 4335-4338
C	4217	4215	4317	
L	4201		4302	
IC	4202		4303	
RA	4202		4308	4301-4304
CN	102			

y10378001a_rev0

4.25 MAIN(TG/VDR) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



NOTE : The parts with marked (∗) is not used.

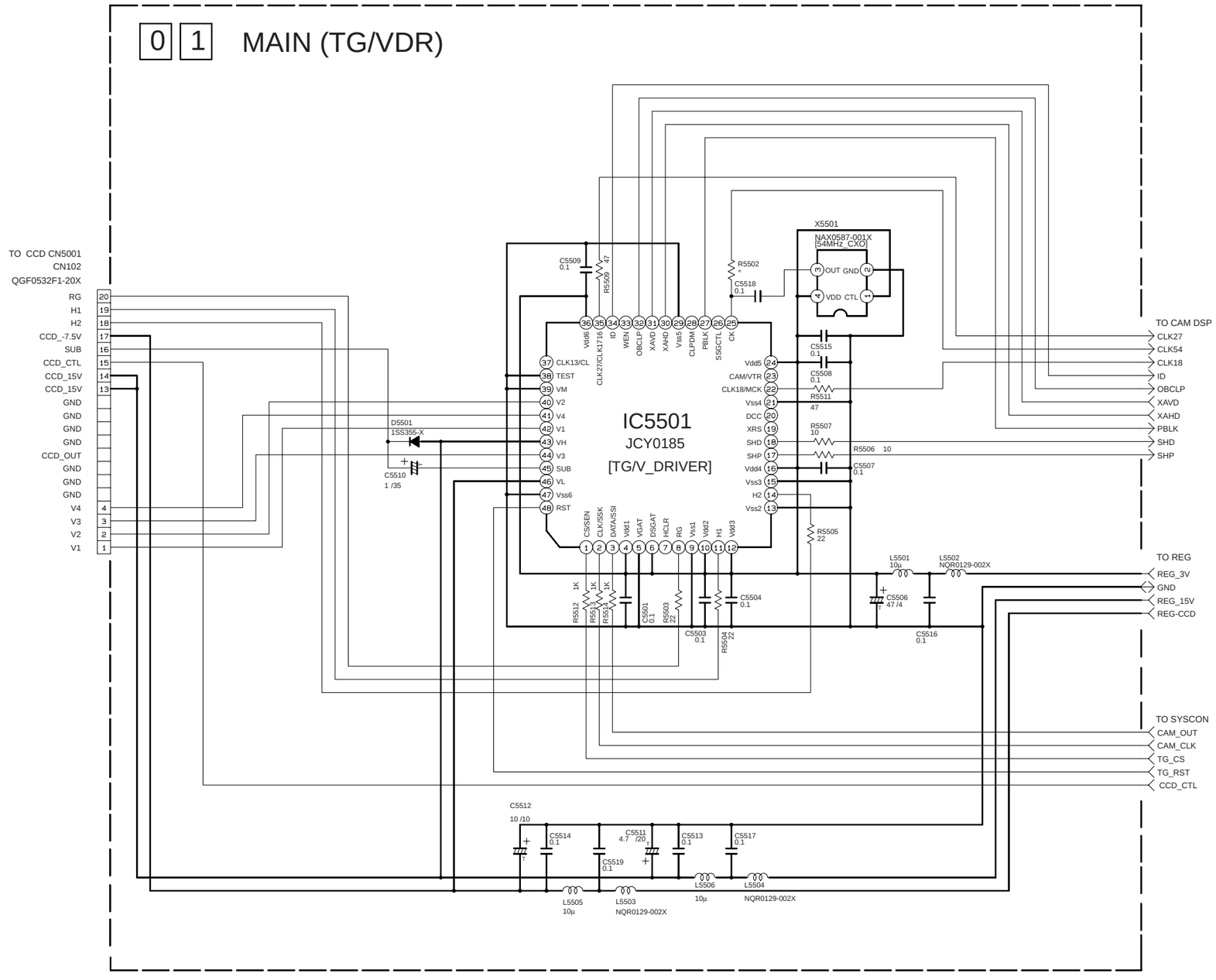
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

+ ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR

LAST NO		VACANT NO
R	5020	5007-5008 5011-5016 5018
C	5033	5016 5020 5028
D	5002	
IC	5004	
L	5007	

y20276001a_rev0

4.26 MAIN(TG/VDR) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL MODEL]



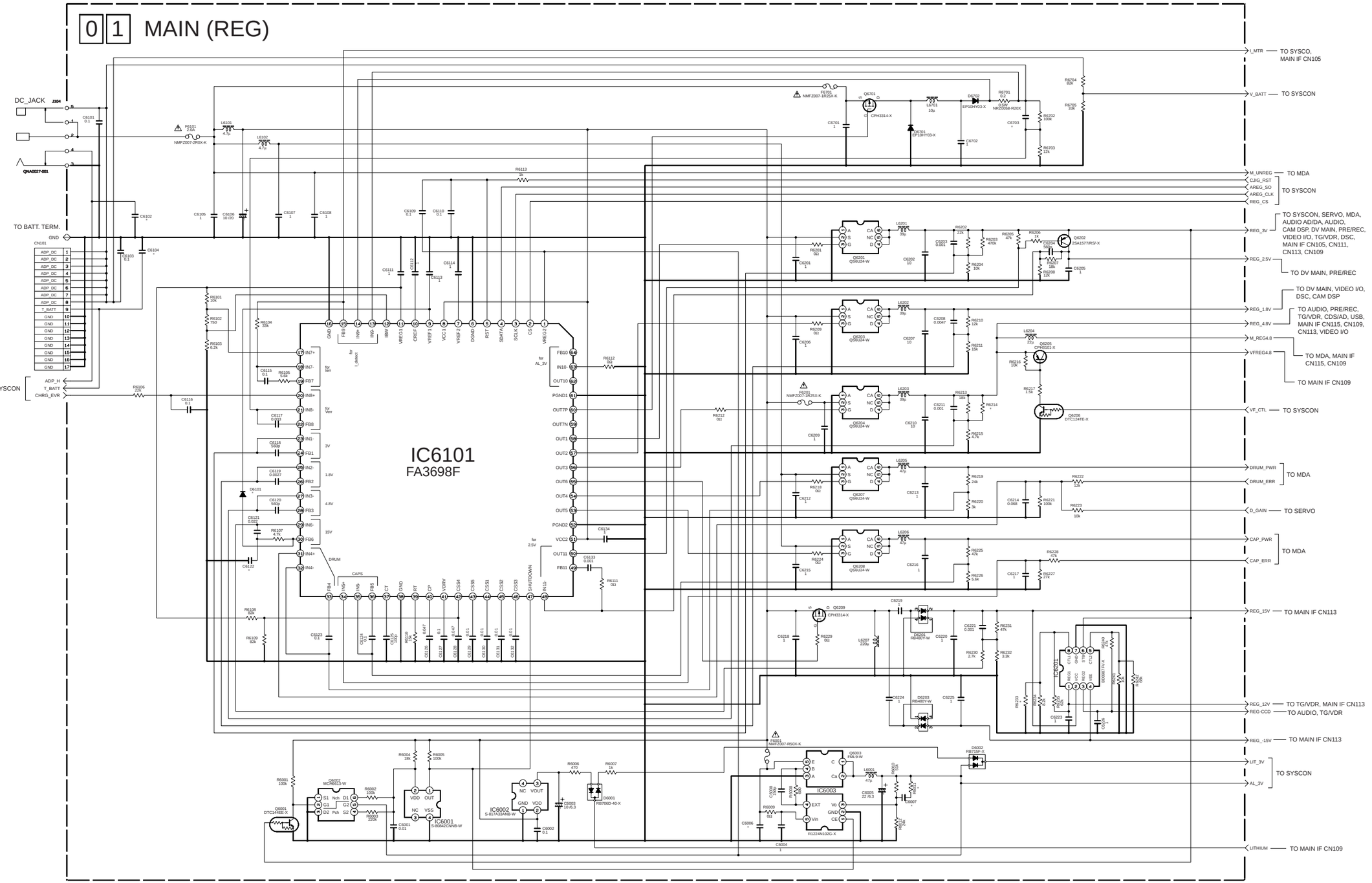
NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO		VACANT NO
R	5514	5501 5508 5510
C	5519	5502 5505
D	5501	
L	5506	
IC	5501	
X	5501	

4.27 MAIN(REG) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



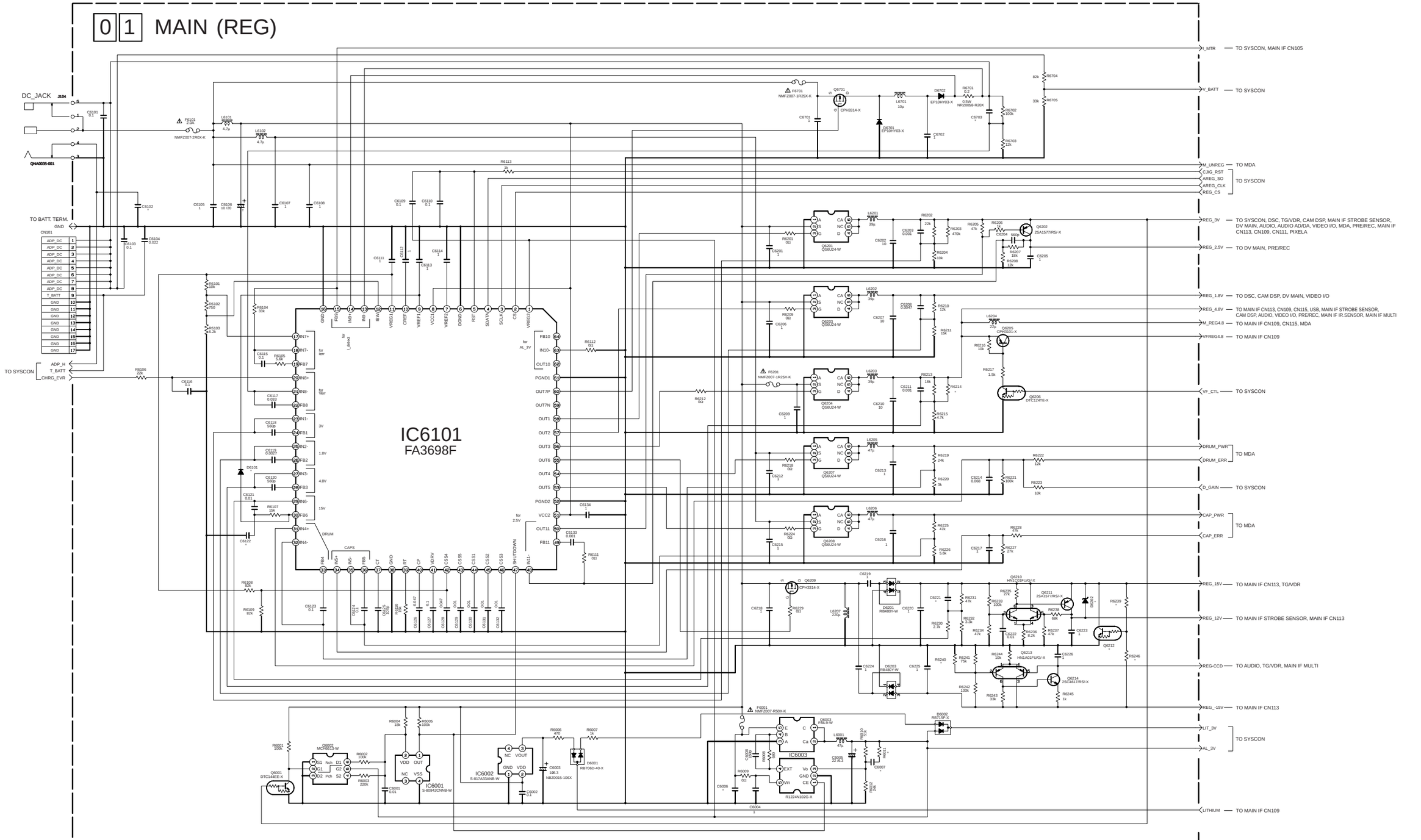
NOTE : The parts with marked (⁎) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
TANTAL

LAST NO	VACANT NO
R	6705	1-6000, 6013-6100, 6114-6200, 6236-6239, 6243-6700
C	6703	1-6000, 6009-6100, 6135-6200, 6222,6227-6700
D	6702	1-6000, 6003-6100, 6102-6200, 6202,6204-6700
Q	6701	1-6000, 6004-6200, 6210-6700
L	6701	1-6000, 6002-6100, 6103-6200, 6208-6700

y10381001a_rev0

4.28 MAIN(REG) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL MODEL]


01 MAIN (REG)
IC6101
FA3698F
IC6002
S-817A33ANB-W
IC6001
S-8084ZCNNB-W
IC6003
R1224N102G-X
DC_JACK J104
QNA0035-001
TO BATT. TERM.
GND
CN101
TO SYSCON
ADP_H
T_BATT
CHRG_EVR
I_MTR — TO SYSCON, MAIN IF CN105
V_BATT — TO SYSCON
M_UNREG — TO MDA
CJG_RST
AREG_SO
AREG_CLK
REG_CS — TO SYSCON
REG_3V — TO SYSCON, DSC, TG/VDR, CAM DSP, MAIN IF STROBE SENSOR, DV MAIN, AUDIO, AUDIO AD/DA, VIDEO I/O, MDA, PRE/REC, MAIN IF CN113, CN109, CN111, PIXELA
REG_2.5V — TO DV MAIN, PRE/REC
REG_1.8V — TO DSC, CAM DSP, DV MAIN, VIDEO I/O
REG_4.8V — TO MAIN IF CN113, CN109, CN115, USB, MAIN IF STROBE SENSOR, CAM DSP, AUDIO, VIDEO I/O, PRE/REC, MAIN IF IR.SENSOR, MAIN IF MULTI
M_REG4.8 — TO MAIN IF CN109, CN115, MDA
VFREG4.8 — TO MAIN IF CN109
VF_CTL — TO SYSCON
DRUM_PWR
DRUM_ERR — TO MDA
D_GAIN — TO SYSCON
CAP_PWR
CAP_ERR — TO MDA
REG_15V — TO MAIN IF CN113, TG/VDR
REG_12V — TO MAIN IF STROBE SENSOR, MAIN IF CN113
REG-CCD — TO AUDIO, TG/VDR, MAIN IF MULTI
REG_-15V — TO MAIN IF CN113
LIT_3V
AL_3V — TO SYSCON
LITHIUM — TO MAIN IF CN109

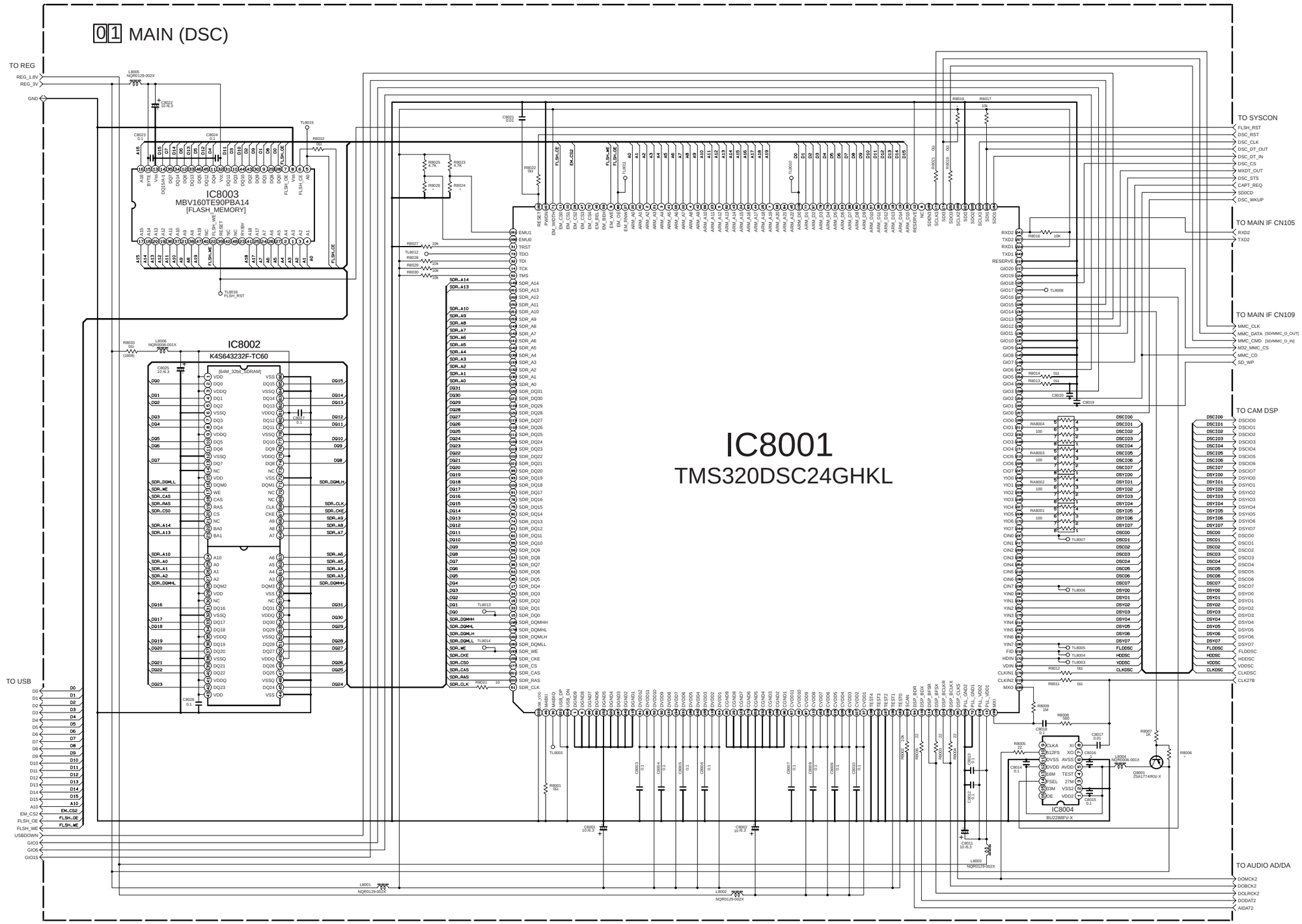
NOTE : The parts with marked (⁎) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO	VACANT NO
R 6705	1-6000, 6013-6100, 6114-6200, 6247-6700
C 6703	1-6000, 6009-6100, 6135-6200, 6227-6700
D 6702	1-6000, 6003-6100, 6102-6200, 6204-6700
Q 6701	1-6000, 6004-6200, 6215-6700
L 6701	1-6000, 6002-6100, 6103-6200, 6208-6700

y10380001a_rev0

4.29 MAIN(DSC) SCHEMATIC DIAGRAM [FOR MEGA PIXEL with DSC MODEL]



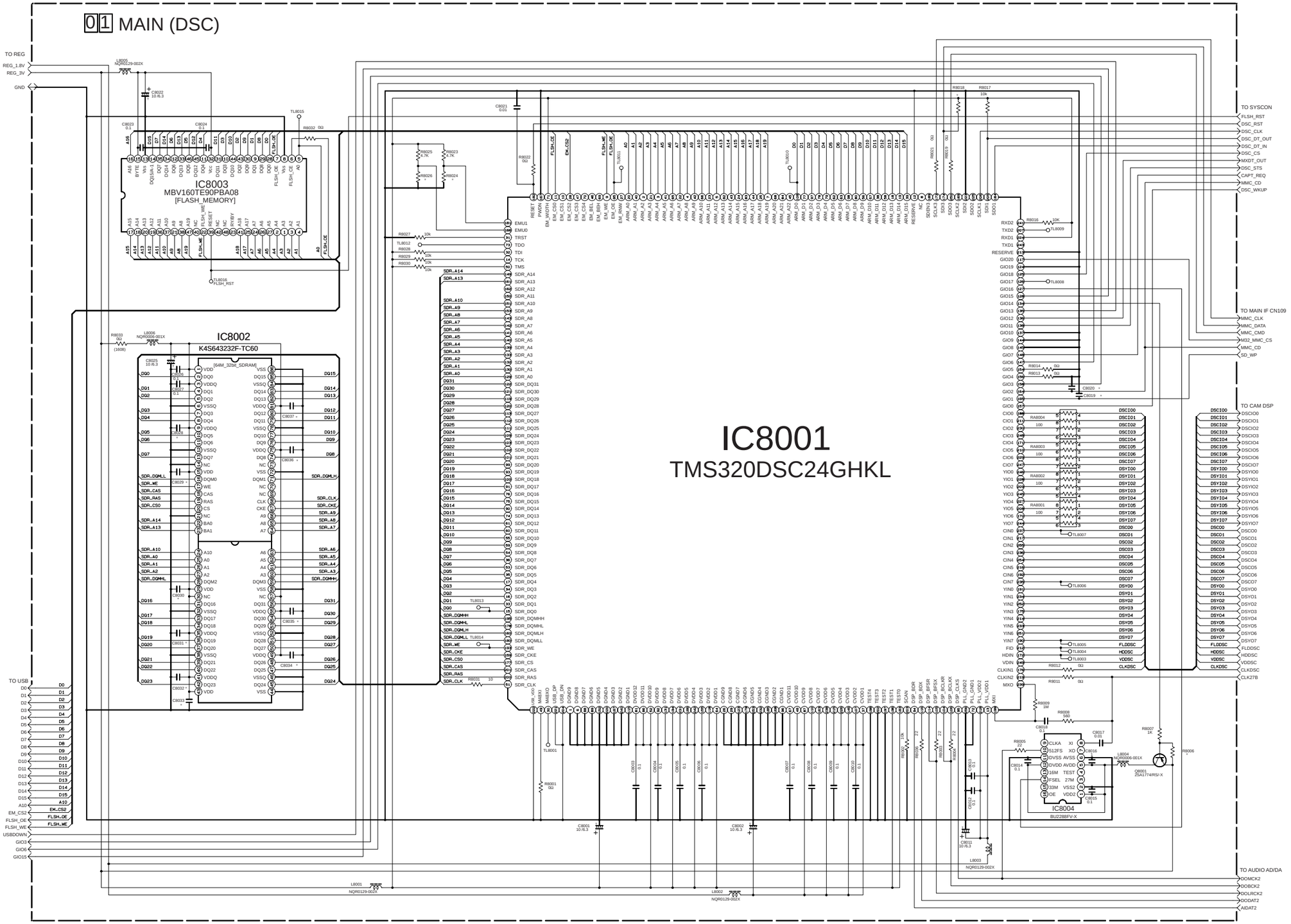
NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO	VACANT NO
R	8036	8010, 8015, 8020, 8034, 8035
C	8027	
Q	8001	
L	8006	
RA	8004	
IC	8004	

y10386001a_rev0

4.30 MAIN(DSC) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL with DSC MODEL]

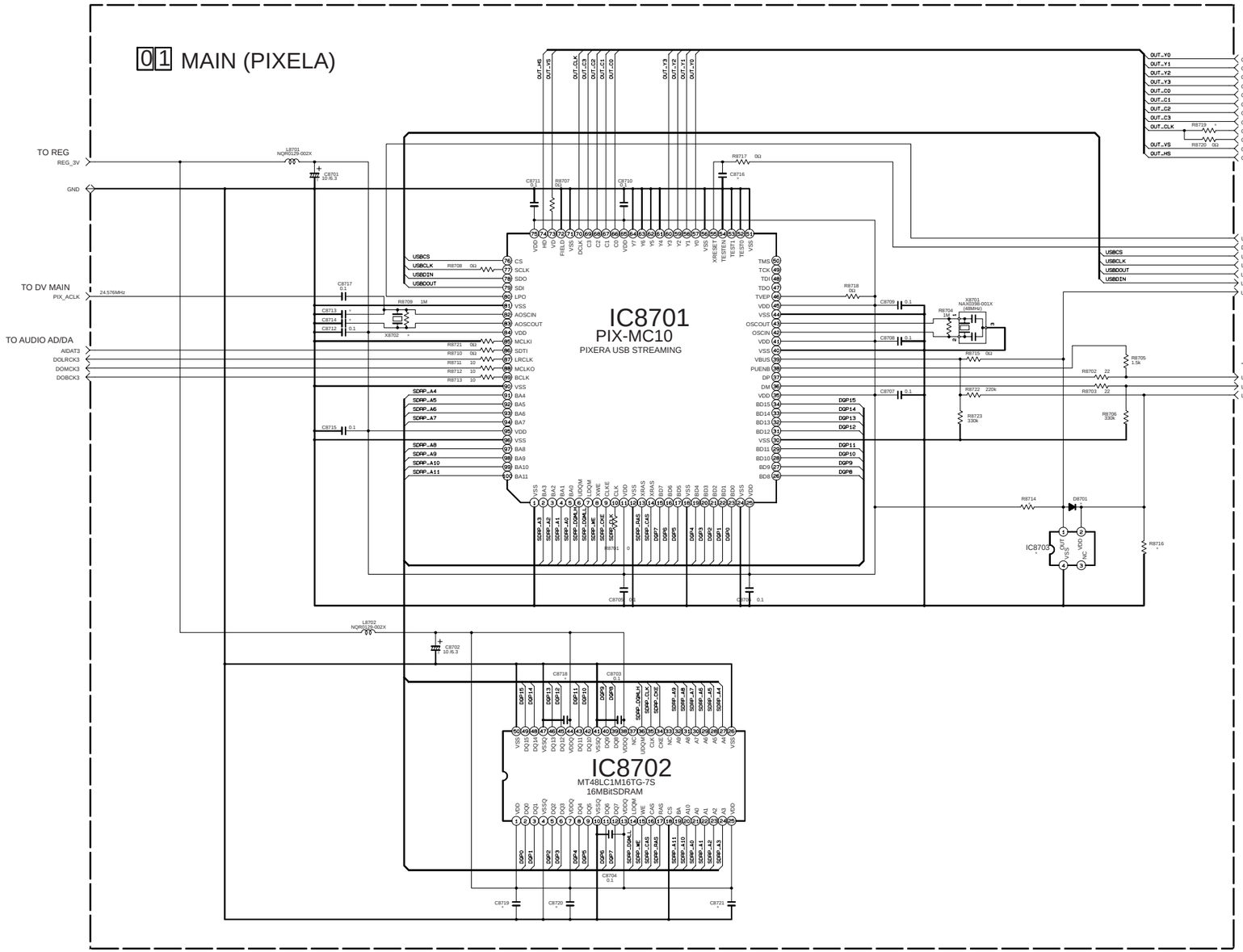


NOTES·UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO		VACANT NO
R	8036	8010, 8015, 8020, 8034, 8035
C	8037	
Q	8001	
L	8006	
RA	8004	
IC	8004	

y10382001a_rev0

4.31 MAIN(PIXELA) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL without DSC MODEL]



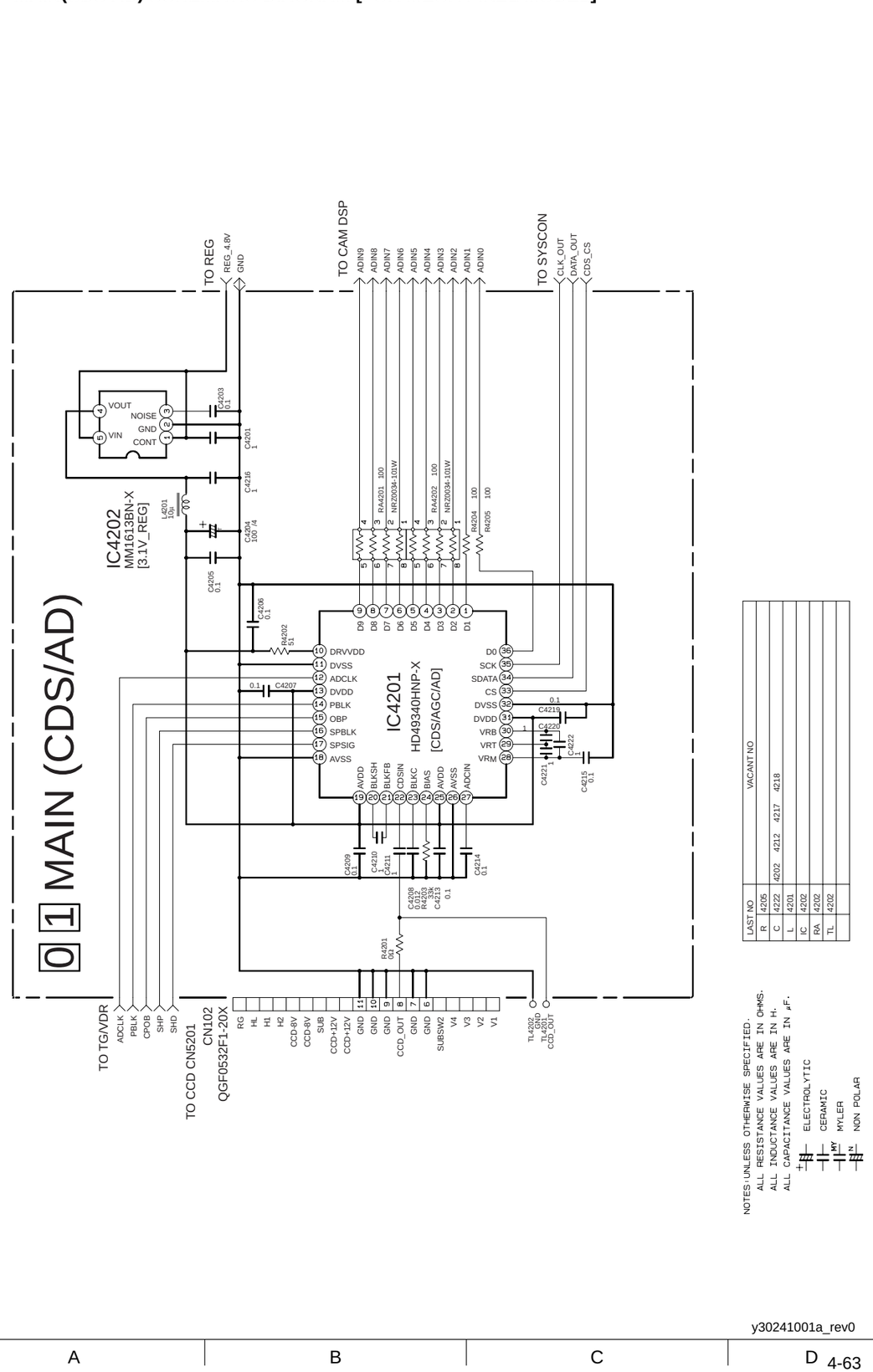
NOTE : The parts with marked (⁎) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC
NO WEAR

LAST NO	VACANT NO
R	8723
C	8721
D	8701
L	8702
X	8702
IC	8703

y10383001a_rev0

4.32 MAIN(CDS/AD) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



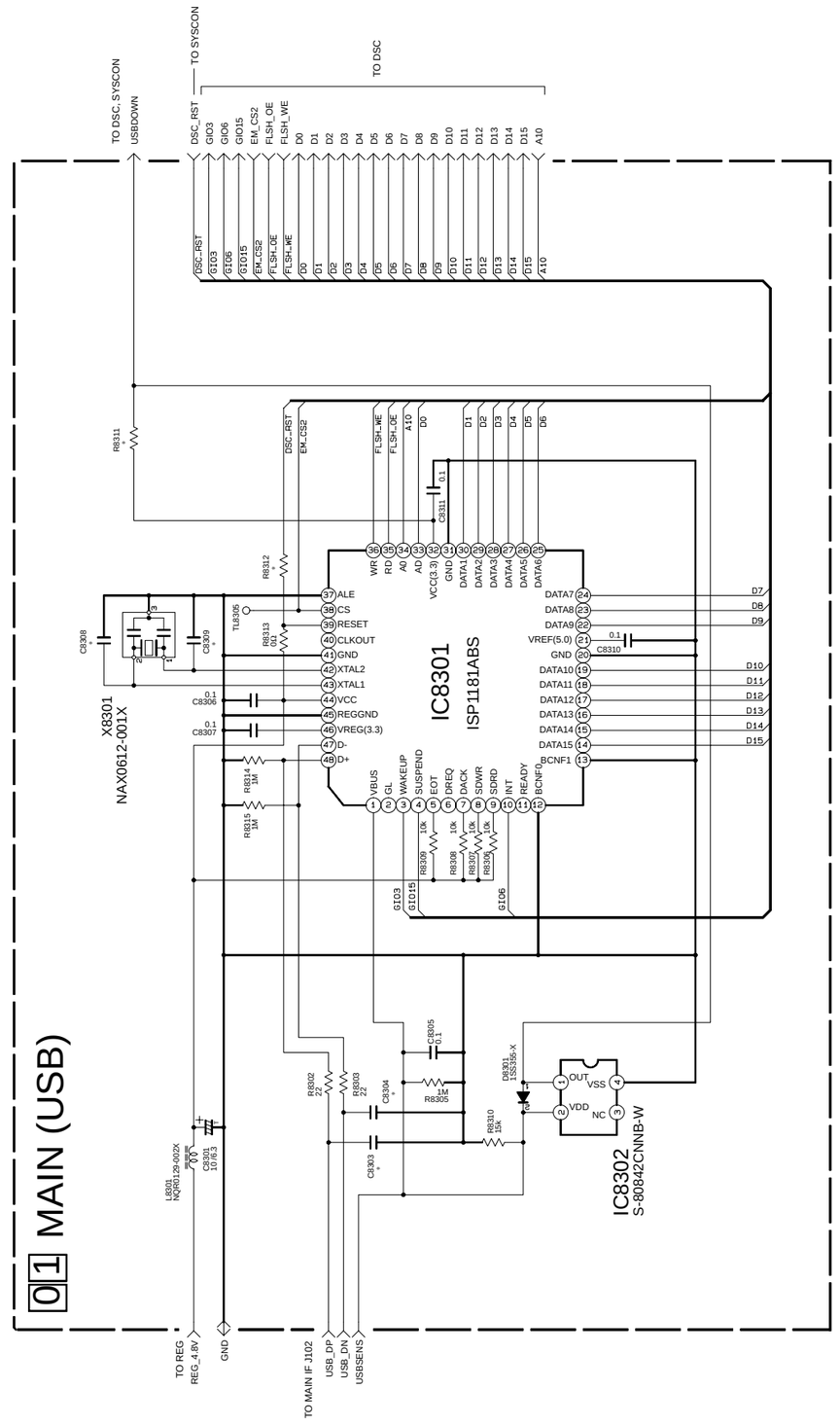
VACANT NO							
LAST NO							
R	4205						
C	4222	4202	4212	4217	4218		
L	4201						
IC	4202						
RA	4202						
TL	4202						

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

y30241001a_rev0

4.33 MAIN(USB) SCHEMATIC DIAGRAM [FOR USB MODEL]

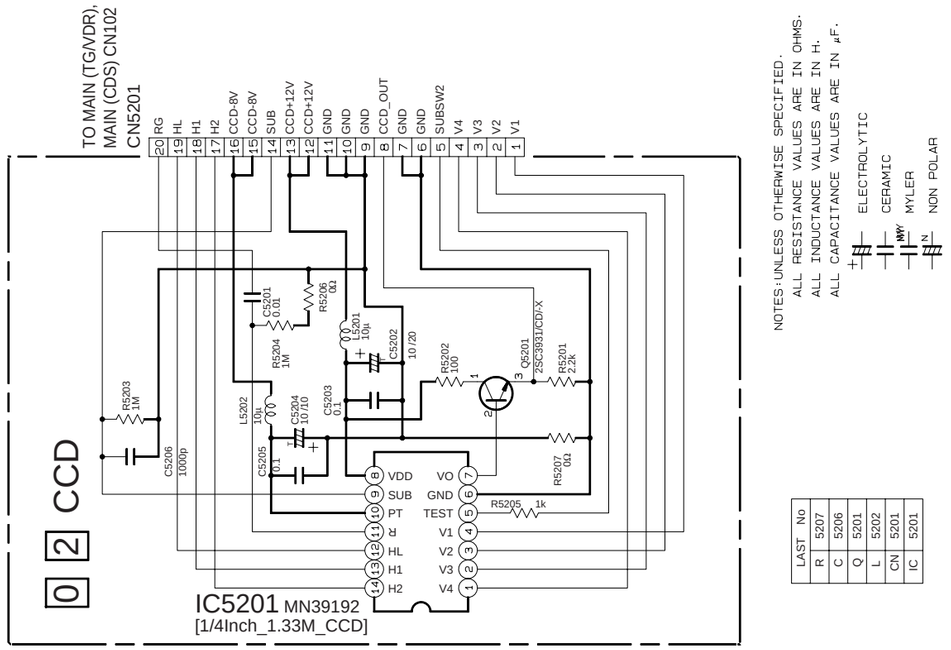


NOTE : The parts with marked (∗) is not used.

y20255001a_rev0

4.34 CCD SCHEMATIC DIAGRAM
[FOR MEGA PIXEL]

NOTE: ● *IC5201 is incorporated in the CCD base assembly. When IC5201 needs replacement, replace the CCD base assembly in whole because it cannot be replaced alone.*

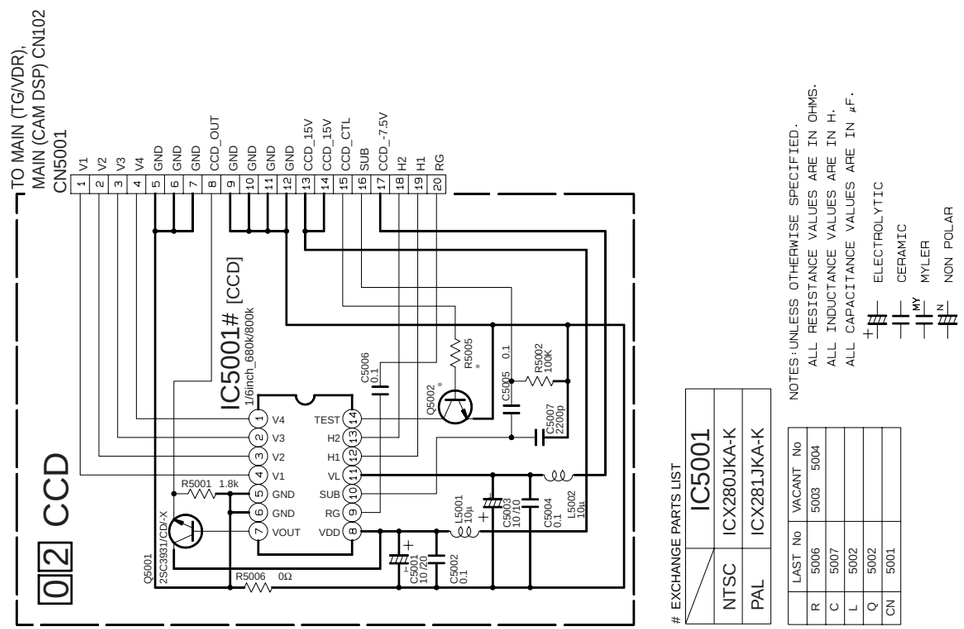


LAST No	
R	5207
C	5206
Q	5201
L	5202
CN	5201
IC	5201

y40111001a_rev0

[FOR NON-MEGA PIXEL]

NOTE: ● *IC5001 is incorporated in the CCD base assembly. When IC5001 needs replacement, replace the CCD base assembly in whole because it cannot be replaced alone.*



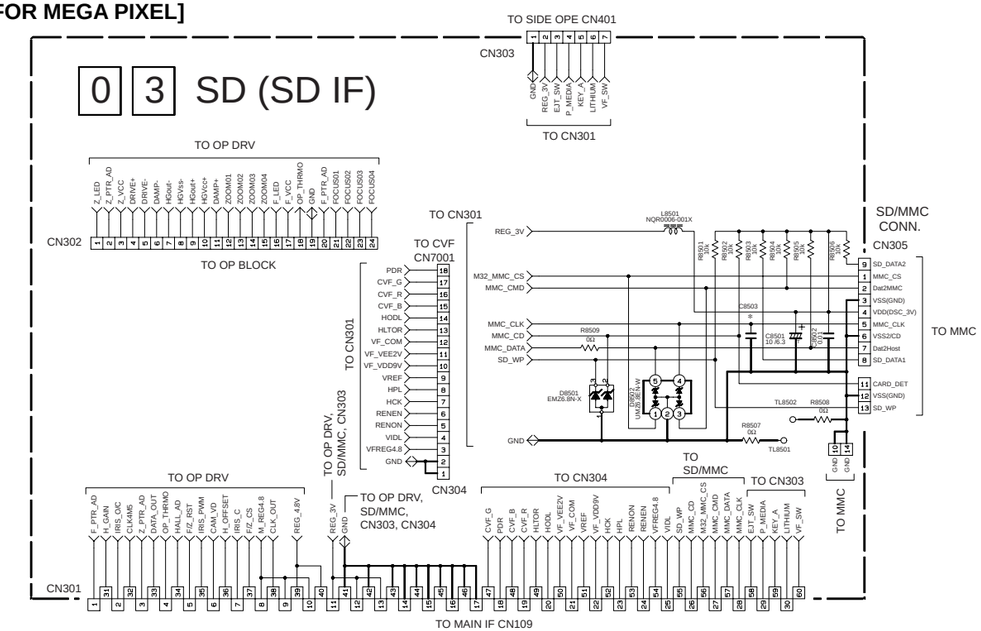
# EXCHANGE PARTS LIST	IC5001
NTSC	ICX280JKA-K
PAL	ICX281JKA-K

	LAST No	VACANT No
R	5006	5003 5004
C	5007	
L	5002	
Q	5002	
CN	5001	

NOTE : The parts with marked (∗) is not used.

y40110001a_rev0

4.35 SD(SD IF) SCHEMATIC DIAGRAM
[FOR MEGA PIXEL]



NOTE : The parts with marked (∗) is not used.

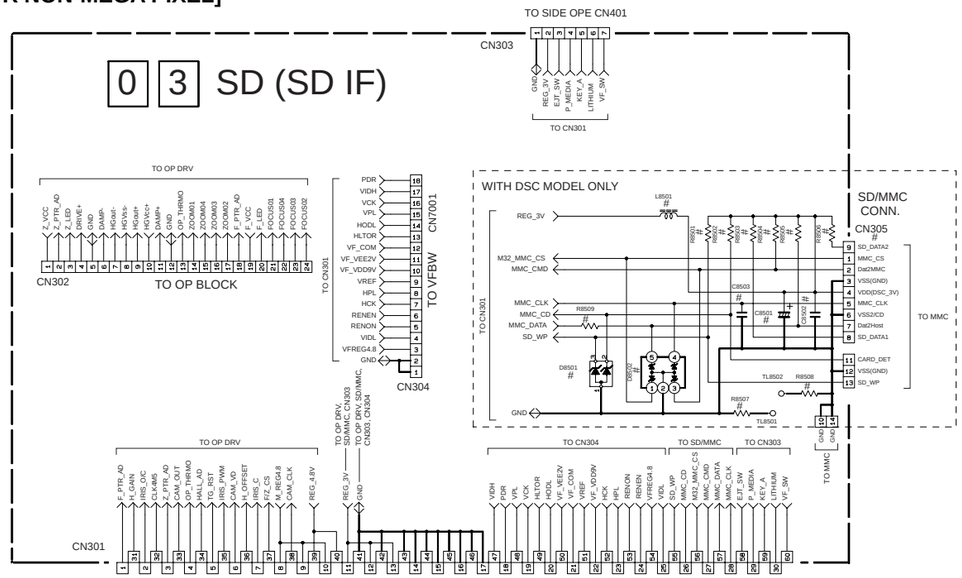
y30243001a_rev0

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.
CERAMIC TANTAL

Symbol No. 8501~8600

LAST NO	VACANT NO
R	8509
C	8503
D	8502
L	8501

[FOR NON-MEGA PIXEL]



NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.
CERAMIC TANTAL

Symbol No. 8501~8600

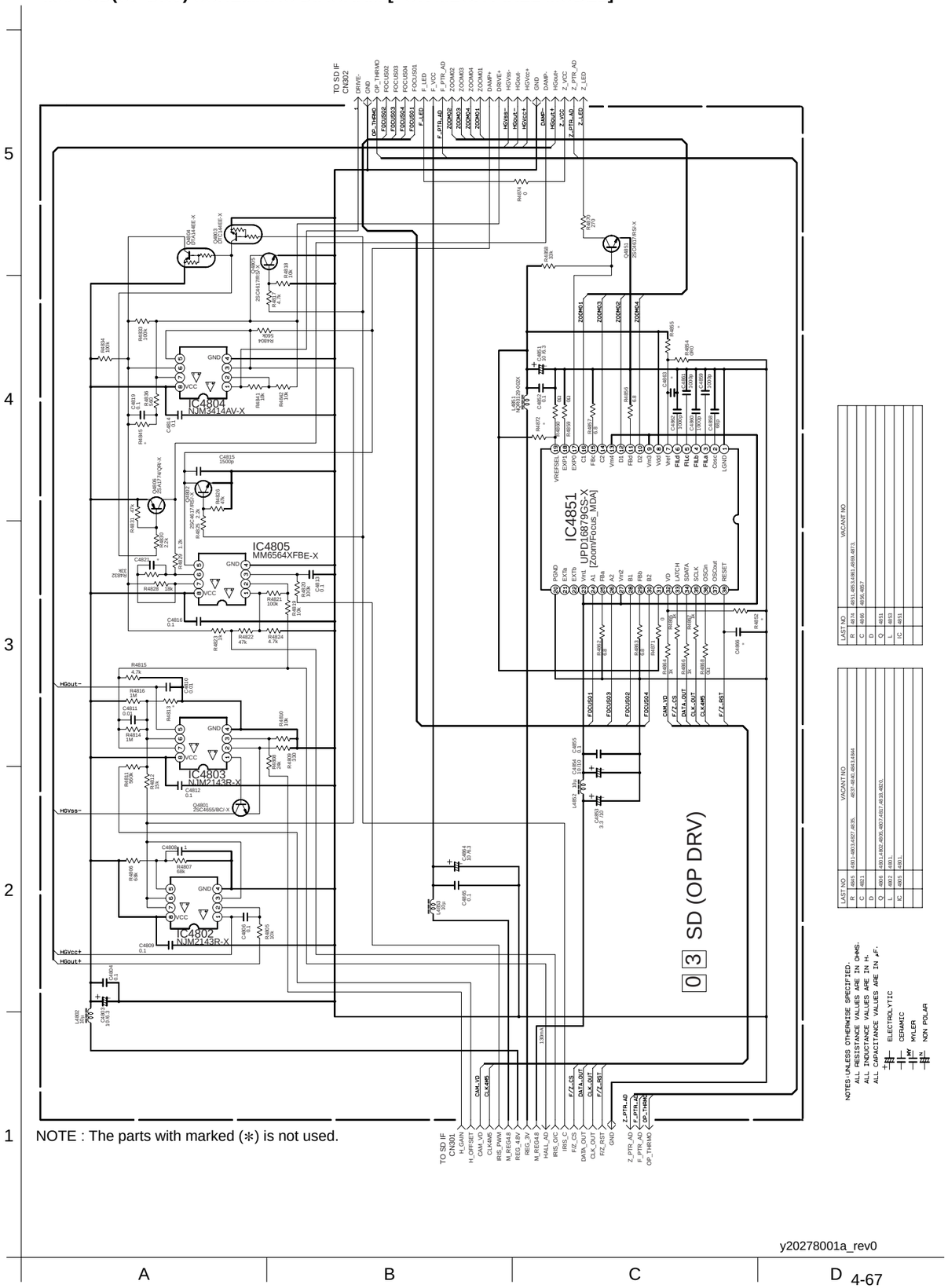
LAST NO	VACANT NO
R	8509
C	8503
D	8502
L	8501

EXCHANGE PARTS LIST

	R8501-R8506	R8507	R8508	R8509	C8501	C8502	C8503	L8501	D8501	D8502	CN305
M3D3-7 WITH DSC	10k	0Ω	0Ω	0Ω	10/6.3	0.01	OPEN	NQR0006-001X	UMZ6.8KW	EMZ6.8N-X	NNZ0267-001X
M3D3~4/D3~5 WITHOUT DSC	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN

y30242001a_rev0

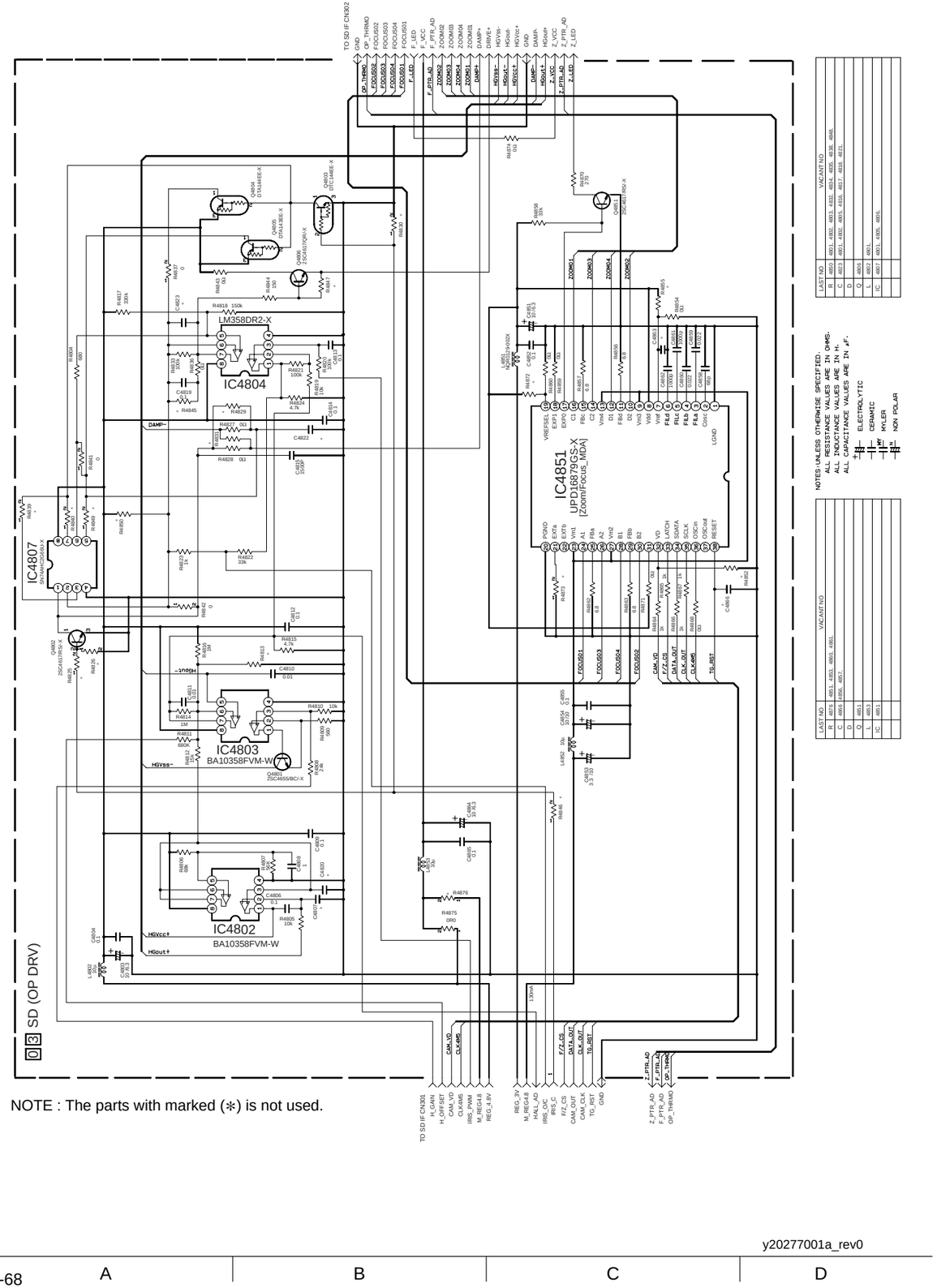
4.36 SD(OP DRV) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



NOTE : The parts with marked (*) is not used.

y20278001a_rev0

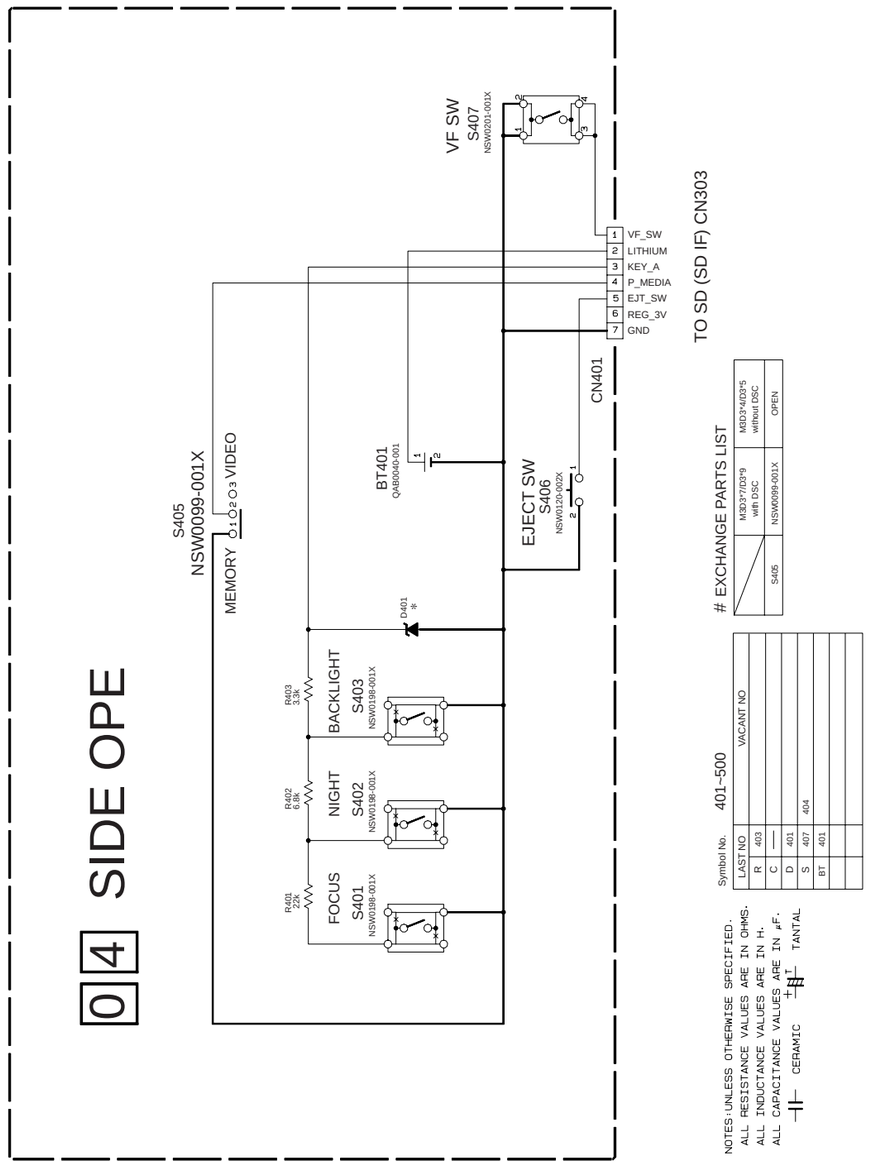
4.37 SD(OP DRV) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL MODEL]



NOTE : The parts with marked (*) is not used.

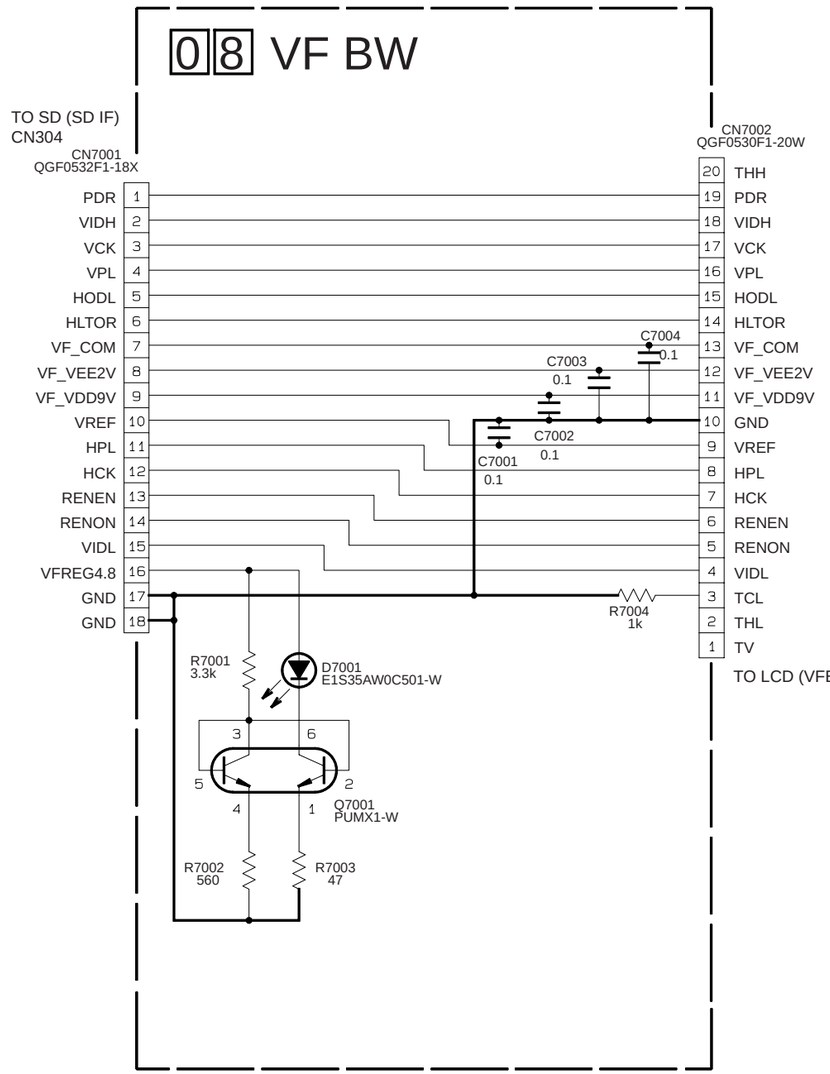
y20277001a_rev0

4.38 SIDE OPE SCHEMATIC DIAGRAM



NOTE : The parts with marked (*) is not used.

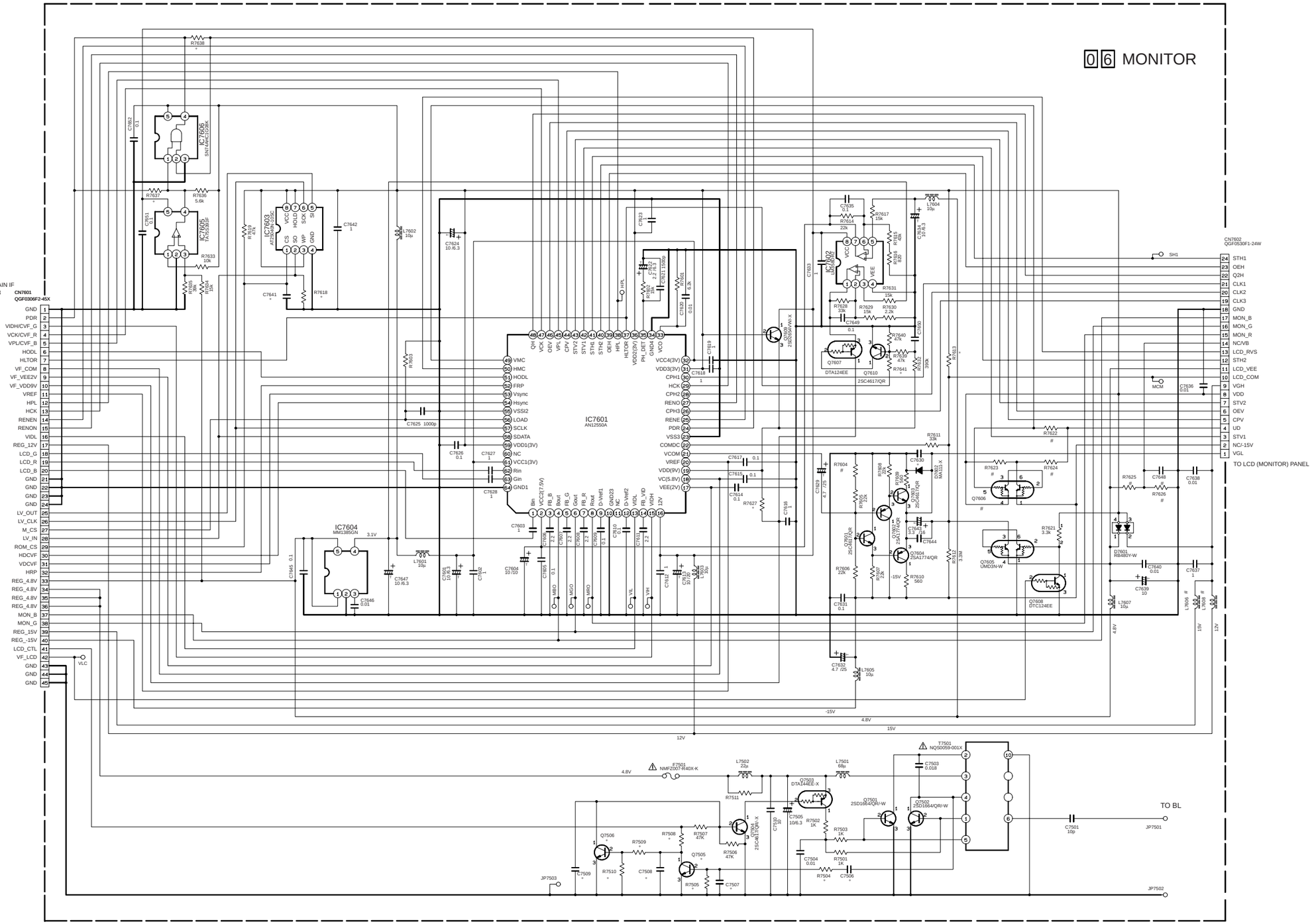
4.39 VF BW SCHEMATIC DIAGRAM



NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

CERAMIC

4.40 MONITOR SCHEMATIC DIAGRAM



NOTE : The parts with marked (∗) is not used.

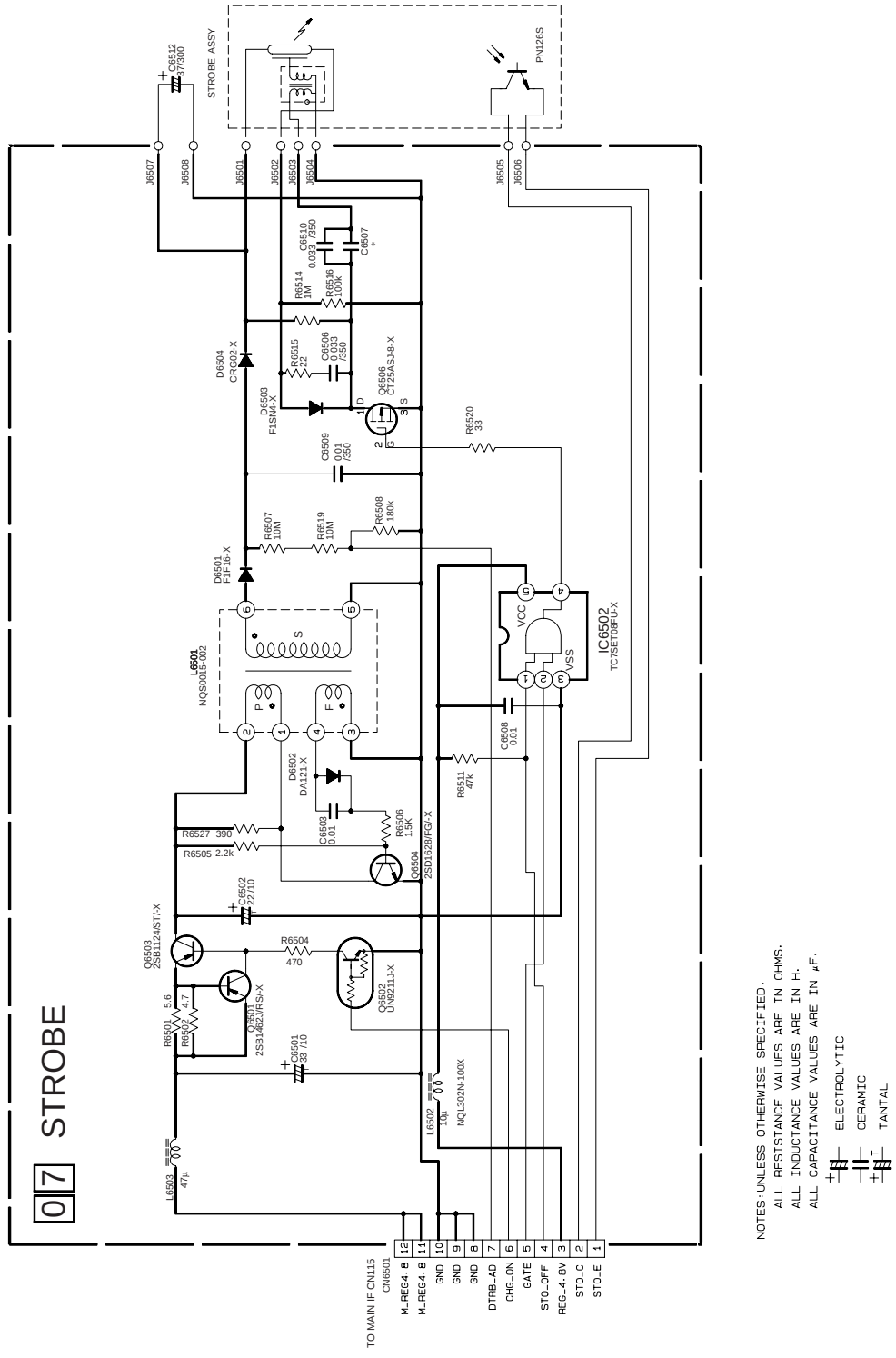
EXCHANGE PARTS LIST

LCD PANEL	Q7606	L7606	L7608	R7604	R7622	R7623	R7624	R7625	R7626	C7648
2.5"	OPEN	10u	OPEN	22k	0	OPEN	OPEN	OPEN	OPEN	OPEN
3.0"	UMD3N	OPEN	10u	6.8k	OPEN	22k	0	22k	22k	0.01

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

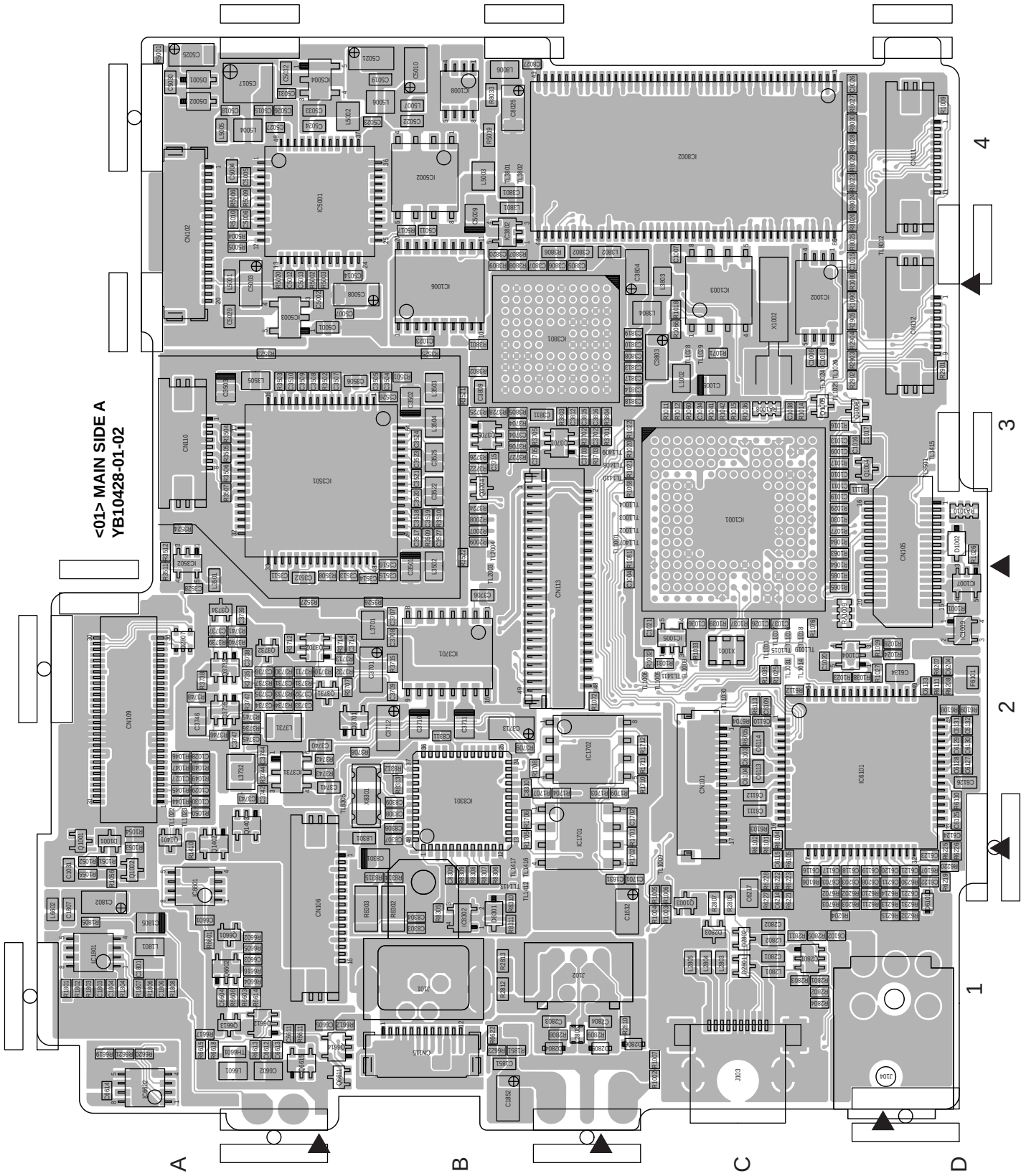
y10384001a_rev0

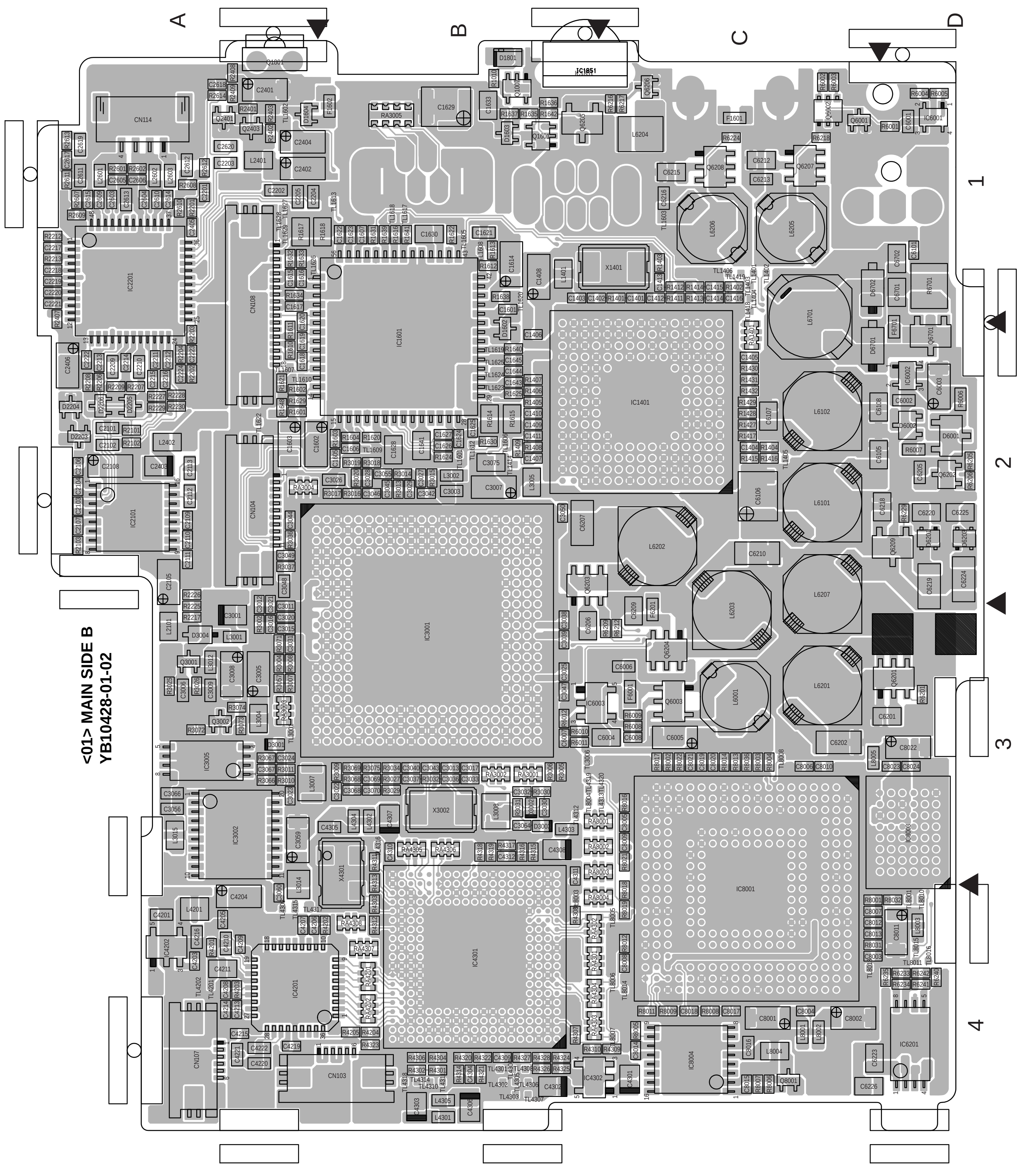
4.41 STROBE SCHEMATIC DIAGRAM [FOR STROBE MODEL]



NOTE : The parts with marked (∗) is not used.

4.42 MAIN CIRCUIT BOARD [FOR MEGA PIXEL with DSC MODEL]





COMPONENT PARTS LOCATION GUIDE <MAIN> YB10428-01-02

REF.NO.	LOCATION
CAPACITOR	
C1004	A C 2C
C1005	A C 3C
C1006	A C 3C
C1007	A C 4C
C1009	A C 3C
C1010	A C 3C
C1011	A C 3C
C1013	A C 3C
C1015	A C 4C
C1016	A C 3C
C1017	A C 3C
C1018	A C 3C
C1019	A C 3C
C1020	A C 2C
C1021	A C 2C
C1023	A C 3B
C1026	A C 2C
C1027	A C 2A
C1028	A C 2A
C1029	A C 2A
C1030	A C 2A
C1031	A C 1A
C1034	A C 3C
C1036	A C 2C
C1037	A C 2C
C1038	A C 3C
C1401	B C 1C
C1402	B C 1B
C1403	B C 1B
C1404	B C 2C
C1405	B C 2C
C1406	B C 2B
C1407	B C 2B
C1408	B C 1B
C1409	B C 2B
C1410	B C 2B
C1411	B C 2B
C1412	B C 1C
C1413	B C 1C
C1414	B C 1C
C1415	B C 1C
C1416	B C 1C
C1601	B C 1B
C1602	B C 2A
C1603	B C 2A
C1605	B C 2B
C1606	B C 2B
C1607	B C 1B
C1614	B C 1B
C1615	B C 1A
C1616	B C 1A
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C1619	B C 2A
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C1622	B C 1B
C1623	B C 1B
C1624	B C 2B
C1625	B C 2B
C1626	B C 2B
C1627	B C 2B
C1628	B C 2B
C1629	B C 1B
C1630	B C 1B
C1631	A C 1C
C1632	A C 1C
C1633	B C 1B
C1641	B C 2B
C1643	B C 2B
C1644	B C 2B
C1645	B C 2B
C1701	A C 1C
C1702	A C 2C
C1801	A C 1A
C1802	A C 1A
C1803	A C 1A
C1804	A C 1A
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C2204	B C 1A
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C2216	B C 2A
C2217	B C 1A
C2218	B C 1A
C2219	B C 1A
C2220	B C 1A
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C2606	B C 1A
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C2801	A C 1C
C2802	A C 1C
C2803	A C 1B
C2804	A C 1B
C3001	B C 3A
C3003	B C 2B
C3005	B C 3A
C3006	B C 3A
C3007	B C 2B
C3008	B C 3A
C3009	B C 3A
C3011	B C 3A
C3012	B C 3A
C3013	B C 3B
C3015	B C 3A
C3016	B C 3A
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C3027	B C 2B
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C3029	B C 2B
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C3046	B C 2B
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C3049	B C 2A
C3050	B C 2B
C3055	B C 2B
C3056	B C 3A
C3059	B C 3A
C3060	B C 4A
C3064	B C 3B
C3066	B C 3A
C3067	B C 3A
C3068	B C 3B
C3069	B C 3B
C3070	B C 3B
C3075	B C 2B
C3501	A C 2B
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C3505	A C 3B
C3506	A C 3B
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C3711	A C 2B
C3712	A C 2B
C3713	A C 2B
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C3743	A C 2A
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C3747	A C 2A
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C3805	A C 4B
C3806	A C 4B
C3807	A C 4B
C3808	A C 3C
C3809	A C 3B
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C6003	B C 2D
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C6116	A C 1C
C6117	A C 1C
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C6129	A C 2D
C6130	A C 2D
C6131	A C 2D
C6132	A C 2D
C6133	A C 2D
C6134	A C 2D
C6201	B C 3D
C6202	B C 3C
C6203	A C 1C
C6204	A C 2D
C6205	B C 2D
C6206	B C 3B
C6207	B C 2B
C6208	A C 1C
C6209	B C 3C
C6210	B C 2C
C6211	A C 1D
C6212	B C 1C
C6213	B C 1C
C6214	A C 1C
C6215	B C 1C
C6216	B C 1C
C6217	A C 1C
C6218	B C 2D
C6219	B C 2D
C6220	B C 2D
C6221	A C 1D
C6223	B C 4C
C6224	B C 2D
C6225	B C 2D
C6226	B C 4C
C6601	A C 1A
C6602	A C 1A
C6603	A C 1A
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C6612	A C 1A
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C6614	A C 1A
C6701	B C 1D
C6702	B C 1D
C6703	A C 1C
C8001	B C 4C
C8002	B C 4C
C8003	B C 4C
C8004	B C 4C
C8005	B C 3C
C8006	B C 3C
C8007	B C 4C
C8008	B C 4C
C8009	B C 3C
C8010	B C 3C
C8011	B C 4D
C8012	B C 4C
C8013	B C 4C
C8014	B C 4C
C8015	B C 4C
C8016	B C 4C
C8017	B C 4C
C8018	B C 4C
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C8021	B C 3C
C8022	B C 3D
C8023	B C 3D
C8024	B C 3D
C8025	A C 4B
C8026	A C 4C
C8027	A C 4B
C8301	A C 1B
C8303	A C 1B
C8304	A C 1B
C8305	A C 1B
C8306	A C 2B
C8307	A C 2B
C8308	A C 2B
C8309	A C 2B
C8310	A C 2B
C8311	A C 2B
CONNECTOR	
CN101	A C 2C
CN102	A C 4A
CN103	B C 4B
CN104	B C 2A
CN105	A C 3D
CN106	A C 1A
CN107	B C 4A
CN108	B C 1A
CN109	A C 2A
CN110	A C 3A
CN111	A C 4D
CN112	A C 3D
CN113	A C 2B
CN114	B C 1A
CN115	A C 1B
DIODE	
D1001	A C 2A
D1002	A C 3D
D1602	B C 2B
D1603	B C 1B
D1604	B C 1A
D1801	B C 1B
D2203	B C 2A
D2204	B C 2A
D2205	B C 2A
D2206	B C 2A
D2801	A C 1C
D2802	A C 1C
D2803	A C 1C
D2804	A C 1B
D2805	A C 1B
D2806	A C 1C
D2807	A C 2A
D3001	B C 3A
D3002	B C 3B
D3003	B C 3B
D3004	B C 3A
D3701	A C 2B
D5001	A C 4A
D5002	A C 4A
D6001	B C 2D
D6002	B C 2D
D6101	A C 1D
D6201	B C 2D
D6203	B C 2D
D6701	B C 2C
D6702	B C 1C
D8301	A C 1B
FUSE	
F1601	B C 1C
F1602	B C 1B
F6001	B C 3C
F6101	A C 2D
F6201	B C 3C
F6701	B C 2D
IC	
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IC1002	A C 3C
IC1003	A C 3C
IC1004	A C 2C
IC1005	A C 2C
IC1006	A C 3B
IC1007	A C 2D
IC1008	A C 4B
IC1009	A C 2D
IC1401	B C 2C
IC1601	B C 2B
IC1701	A C 2B
IC1702	A C 2B
IC1801	A C 1A
IC1851	A D 1B
IC2101	B C 2A
IC2201	B C 1A
IC3001	B C 3B
IC3002	B C 3A
IC3005	B C 3A
IC3501	A C 3B
IC3502	A C 3A
IC3701	A C 2B
IC3731	A C 2A
IC3801	A C 3B
IC3802	A C 4B
IC4201	B C 4A
IC4202	B C 4A
IC4301	B C 4B
IC4302	B C 4B
IC5001	A C 4B
IC5002	A C 4B
IC5003	A C 3A
IC5004	A C 4B
IC6001	B C 1D
IC6002	B C 2D
IC6003	B C 3B
IC6101	A C 2C
IC6201	B C 4D
IC6601	A C 1A
IC6602	A C 1A
IC8001	B C 4C
IC8002	A C 4C
IC8003	B C 3D
IC8004	B C 4C
IC8301	A C 2B
IC8302	A C 1B
COIL	
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L1401	B C 1B
L1801	A C 1A
L2101	B C 3A
L2401	B C 1A
L2402	B C 2A
L2601	B C 1A
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L5007	A C 4B
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L6203	B C 3C
L6204	B C 1C
L6205	B C 1C
L6206	B C 1C
L6207	B C 2C
L6601	A C 1A
L6602	A C 1A
L6701	B C 1C
L8001	B C 4C
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L8003	B C 4D
L8004	B C 4C
L8005	B C 3C
L8006	A C 4B
L8301	A C 2B
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Q1402	A C 2A
Q1403	A C 2A
Q1601	B C 1B
Q1801	A D 1A
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Q2801	A C 1C
Q3001	B C 3A
Q3002	B C 3A
Q3701	A C 3B
Q3702	A C 2A
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Q6613	A C 1A
Q6614	A C 1B
Q6615	A C 1A
Q6701	B C 2D
Q8001	B C 4C
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R1005	A C 1C
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RA8002	B C 3B
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TL1003	A C 3C
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TL1005	A C 2C
TL1006	A C 2C
TL1008	A C 2C
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TL1029	A C 3C
TL1030	A C 2C
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TL4307	B C 4B
TL4308	B C 4B
TL4309	B C 4A
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TL4311	B C 4B
TL4312	B C 3B
TL4313	B C 3C
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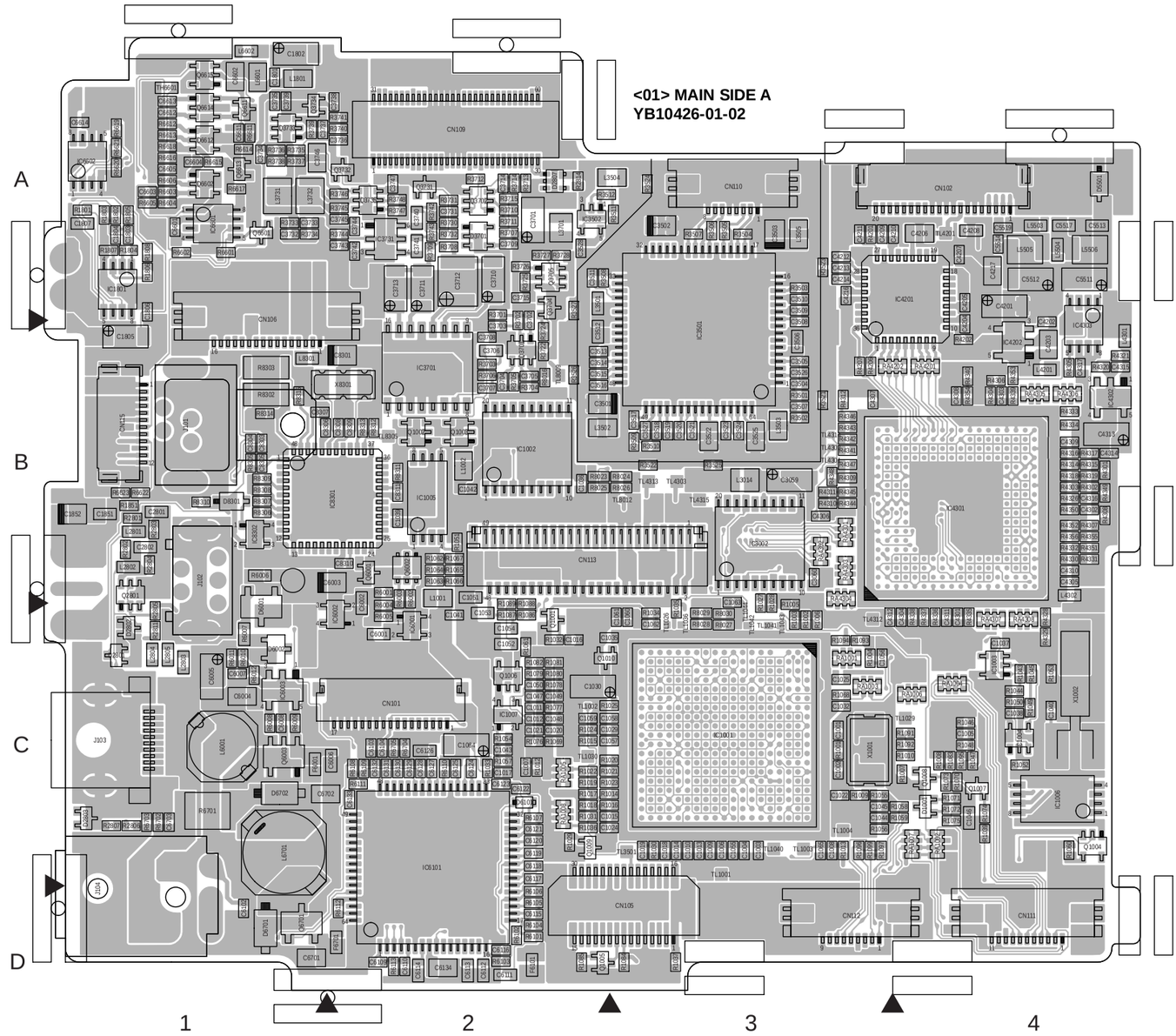
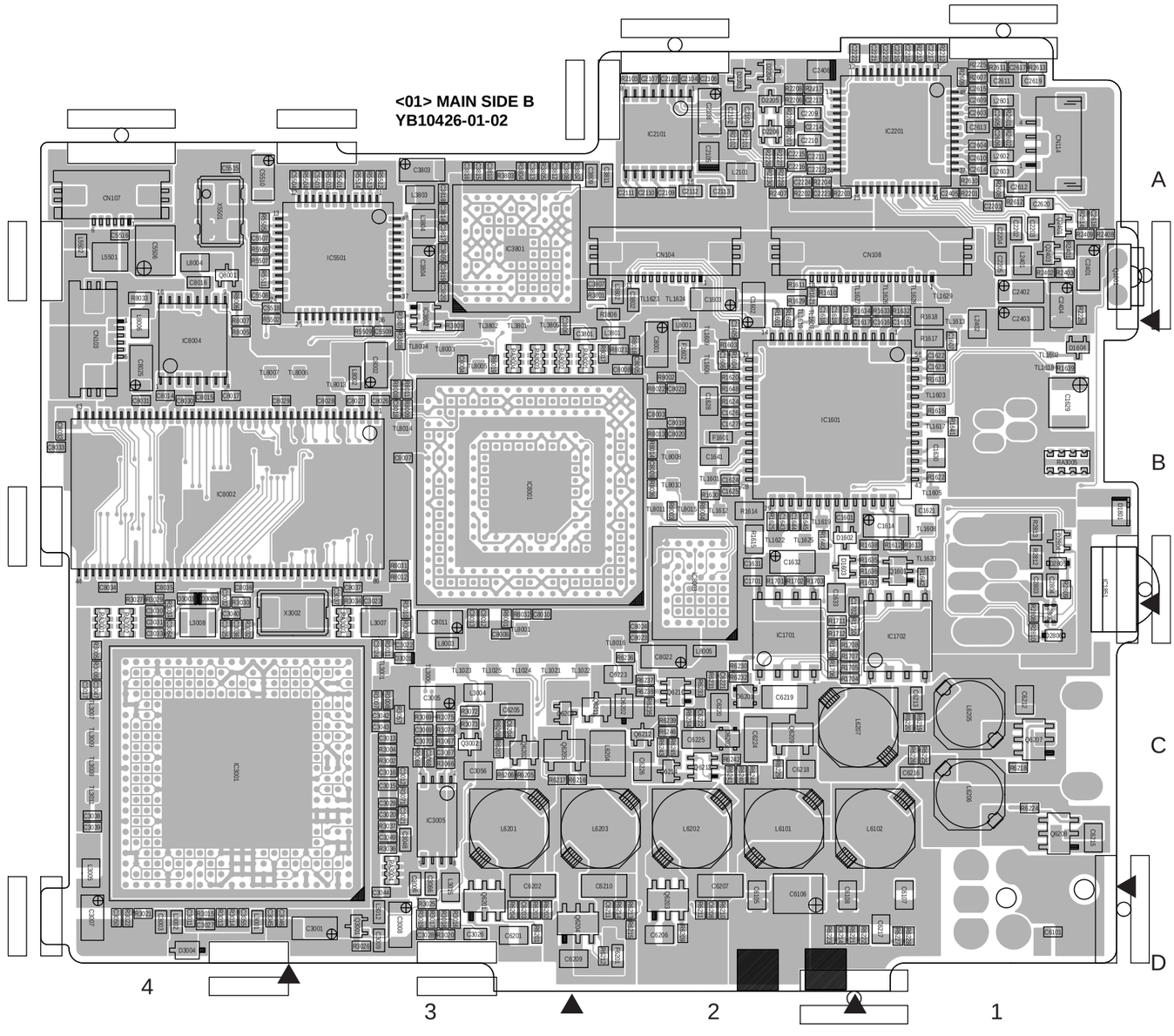
TL4319	B C 3B
TL4320	B C 3C
TL8001	B C 4D
TL8003	B C 4B
TL8004	B C 3B
TL8005	B C 4C
TL8006	B C 4C
TL8007	B C 4C
TL8008	B C 3C
TL8010	B C 4D
TL8011	B C 4D
TL8012	A C 4C
TL8013	B C 4C
TL8014	B C 4C
TL8015	B C 4D
TL8016	B C 4D
TL8305	A C 2B
OTHER	
J101	A D 1B
J102	A D 1B
J103	A C 1C
J104	A D 1D
TH6601	A C 1A
X1001	A C 2C
X1002	A C 3C
X1401	B C 1C
X3002	B C 3B
X4301	B C 3B
X8301	A C 2B



<01> MAIN SIDE A
YB10426-01-02

4-77



<01> MAIN SIDE B
YB10426-01-02

4-78

COMPONENT PARTS LOCATION GUIDE <MAIN> YB10426-01-02

REF.NO.	LOCATION
CAPACITOR	
C1001	A C 3C
C1002	A C 3C
C1003	A C 3C
C1004	A C 3C
C1005	A C 4C
C1006	A C 3C
C1007	A C 2C
C1008	A C 3C
C1009	A C 3C
C1010	A C 3C
C1011	A C 2C
C1012	A C 2C
C1013	A C 3C
C1014	A C 3C
C1015	A C 2C
C1016	A C 2C
C1017	A C 2C
C1018	A C 3C
C1019	A C 3C
C1020	A C 2C
C1021	A C 2C
C1022	A C 3C
C1024	A C 2C
C1025	A C 3C
C1029	A C 2C
C1030	A C 2C
C1032	A C 3C
C1035	A C 2C
C1036	A C 2B
C1037	A C 4C
C1038	A C 4C
C1039	A C 2B
C1040	A C 4C
C1041	A C 2C
C1042	A C 2B
C1043	A C 2C
C1044	A C 3C
C1045	A C 3C
C1046	A C 4C
C1047	A C 2C
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C1049	A C 2C
C1050	A C 2C
C1051	A C 2B
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C1063	A C 3B
C1064	A C 2C
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C1601	B C 2B
C1602	B C 2A
C1603	B C 2A
C1605	B C 2B
C1606	B C 2B
C1607	B C 1B
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C1643	B C 2B
C1644	B C 2B
C1645	B C 2B
C1701	B C 2B
C1702	B C 2C
C1801	A C 1A
C1802	A C 1A
C1803	A C 1A
C1804	A C 1A
C1805	A C 1B
C1806	A C 1A
C1807	A C 1A
C1851	A C 1B
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C2202	B C 1A
C2203	B C 1A
C2204	B C 1A
C2205	B C 1A
C2209	B C 2A
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REF.NO.	LOCATION
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C2213	B C 2A
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C2219	B C 1A
C2220	B C 1A
C2221	B C 1A
C2222	B C 2A
C2223	B C 2A
C2224	B C 2A
C2401	B C 1A
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C3527	A C 3B
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C8306	A C 1B
C8307	A C 1B
C8308	A C 2B
C8309	A C 2B
C8310	A C 2B
C8311	A C 2B
CONNECTOR	
CN101	A C 2C
CN102	A C 4A
CN103	B C 4B
CN104	B C 2A
CN105	A C 3D
CN106	A C 1A
CN107	B C 4A
CN108	B C 1A
CN109	A C 2A
CN110	A C 3A
CN111	A C 4D

REF.NO.	LOCATION
CN112	A C 3D
CN113	A C 2B
CN114	B C 1A
CN115	A C 1B
DIODE	
D1001	A C 4C
D1602	B C 2B
D1603	B C 2B
D1604	B C 1B
D1801	B C 1B
D2203	B C 2A
D2204	B C 2A
D2205	B C 2A
D2206	B C 2A
D2801	A C 1C
D2802	A C 1C
D2803	A C 1C
D2804	B C 1B
D2805	B C 1B
D2806	B C 1C
D2807	A C 2A
D3001	B C 3C
D3002	B C 4B
D3003	B C 4B
D3004	B C 4D
D3701	A C 2A
D5501	A C 4A
D6001	A C 1C
D6002	A C 1C
D6101	A C 2C
D6201	B C 2C
D6202	B C 2C
D6203	B C 2C
D6701	A C 1D
D6702	A C 1C
D8301	A C 1B
FUSE	
F1601	B C 2B
F1602	B C 2B
F6001	A C 1C
F6101	A C 2D
F6201	B C 2D
F6701	A C 2D
IC	
IC1001	A C 3C
IC1002	A C 2B
IC1003	A C 4C
IC1004	A C 4C
IC1005	A C 2B
IC1006	A C 4C
IC1007	A C 2C
IC1601	B C 2B
IC1701	B C 2C
IC1702	B C 1C
IC1801	A C 1A
IC1851	A D 1B
IC2101	B C 2A
IC2201	B C 1A
IC3001	B C 4C
IC3002	A C 3B
IC3005	B C 3C
IC3501	A C 3B
IC3502	A C 2A
IC3701	A C 2B
IC3731	A C 2A
IC3801	B C 3A
IC3802	B C 3A
IC4201	A C 4A
IC4202	A C 4B
IC4301	A C 4B
IC4302	A C 4B
IC4303	A C 4B
IC5501	B C 3A
IC6001	A C 2C
IC6002	A C 2C
IC6003	A C 1C
IC6101	A C 2C
IC6601	A C 1A
IC6602	A C 1A
IC8001	B C 3B
IC8002	B C 4B
IC8003	B C 2B
IC8004	B C 4B
IC8301	A C 2B
IC8302	A C 1B
COIL	
L1001	A C 2B
L1002	A C 2B
L1801	A C 1A
L2101	B C 2A
L2401	B C 1A
L2402	B C 1B
L2601	B C 1A
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L2603	B C 1A
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L2804	A C 1C
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L2806	B C 1C
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L3002	B C 4D
L3004	B C 3C
L3005	B C 4C
L3007	B C 3C
L3008	B C 4C
L3012	B C 3D
L3014	A C 3B
L3015	B C 3D
L3501	A C 2A
L3502	A C 2B
L3503	A C 3B
L3504	A C 3A
L3505	A C 3A
L3701	A C 2A

REF.NO.	LOCATION
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L3802	B C 2A
L3803	B C 3A
L3804	B C 3A
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L5505	A C 4A
L5506	A C 4A
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L6201	B C 3C
L6202	B C 2C
L6203	B C 2C
L6204	B C 2C
L6205	B C 1C
L6206	B C 1C
L6207	B C 1C
L6601	A C 1A
L6602	A C 1A
L6701	A C 1C
L8001	B C 2B
L8002	B C 3B
L8003	B C 3C
L8004	B C 4A
L8005	B C 2C
L8006	B C 4B
L8301	A C 1B
TRANSISTOR	
Q1001	A C 2C
Q1002	A C 2B
Q1003	A C 2B
Q1004	A C 4C
Q1005	A C 2D
Q1006	A C 2C
Q1007	A C 4C
Q1008	A C 4C
Q1009	A C 2C
Q1010	A C 2C
Q1601	B C 1B
Q1801	A D 1A
Q2401	B C 1A
Q2403	B C 1A
Q2801	A C 1B
Q3001	B C 3D
Q3002	B C 3C
Q3701	A C 2B
Q3702	A C 2A
Q3704	A C 2A
Q3705	A C 2A
Q3731	A C 2A
Q3732	A C 2A
Q3733	A C 1A
Q3734	A C 1A
Q3735	A C 2A
Q6001	A C 2B
Q6002	A C 2B
Q6003	A C 1C
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Q6202	B C 3C
Q6203	B C 2D
Q6204	B C 2D
Q6205	B C 3C
Q6206	B C 3C
Q6207	B C 1C
Q6208	B C 1C
Q6209	B C 2C
Q6210	B C 2C
Q6211	B C 2C
Q6212	B C 2C
Q6213	B C 2C
Q6214	B C 2C
Q6601	A C 1A
Q6602	A C 1A
Q6611	A C 1A
Q6612	A C 1A
Q6613	A C 1A
Q6614	A C 1A
Q6615	A C 1A
Q6701	A C 1D
Q8001	B C 4A
RESISTOR	
R1001	A C 3C
R1002	A C 3C
R1003	A C 3C
R1004	A C 3C
R1005	A C 3C
R1006	A C 3C
R1007	A C 4C
R1008	A C 4C
R1009	A C 3C
R1010	A C 4C
R1012	A C 2C
R1013	A C 3C
R1014	A C 2C
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R1016	A C 2C
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R1023	A C 2C
R1024	A C 2C
R1025	A C 2C
R1027	A C 3C
R1028	A C 3C
R1029	A C 2C
R1030	A C 3C
R1031	A C 2C

REF.NO.	LOCATION
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R1035	A C 3C
R1036	A C 2C
R1037	A C 3D
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R1077	A C 2C
R1078	A C 2C
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R1080	A C 2C
R1081	A C 2C
R1082	A C 2C
R1083	A C 4C
R1084	A C 3D
R1085	A C 2D
R1086	A C 2C
R1087	A C 2C
R1088	A C 2C
R1089	A C 2C
R1091	A C 4C
R1092	A C 4C
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R1612	B C 1B
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R1808	A C 1A
R1851	A C 1B
R2101	B C 2A
R2102	B C 2A
R2103	B C 2A
R2201	B C 1A

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R2204	B C 2A
R2206	B C 2A
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R2208	B C 2A
R2209	B C 2A
R2212	B C 1A
R2213	B C 1A
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R2225	B C 1A
R2226	B C 1A
R2227	B C 2A
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R2229	B C 2A
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R2807	A C 1C
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R2811	A C 1C
R2812	B C 1B
R2813	B C 1B
R2814	A C 2A
R3002	B C 3C
R3004	B C 3C
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R3805	B C 3A
R3806	B C 2A
R3807	B C 3A
R3808	B C 3B
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R4202	A C 4B
R4206	A C 3B
R4207	A C 3B
R4301	A C 4B
R4302	A C 4B
R4303	A C 4B
R4304	A C 4B
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R6109	A C 2C
R6110	A C 2C

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R6113	A C 2D
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R6202	B C 3D
R6203	B C 3D
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R6212	B C 2D
R6213	B C 2D
R6214	B C 2D
R6215	B C 2D
R6216	B C 2C
R6217	B C 3C
R6218	B C 1C
R6219	B C 1C
R6220	B C 1C
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R8031	B C 3B
R8032	B C 3C
R8033	B C 4A
R8036	B C 2B
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R8306	A C 1B
R8307	A C 1B
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R8309	A C 1B
R8310	A C 1B
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R8313	A C 2B
R8314	A C 1B
R8315	A C 1B
RA1001	A C 3C
RA1002	A C 4C
RA1003	A C 3C

REF.NO.	LOCATION
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RA1005	A C 2C
RA1006	A C 4C
RA1007	A C 4C
RA1008	A C 2C
RA3001	B C 4C
RA3002	B C 4C
RA3003	B C 3C
RA3004	B C 3C
RA3005	B C 1B
RA4201	A C 4B
RA4202	A C 4B
RA4301	A C 3B
RA4302	A C 3B
RA4303	A C 3B
RA4304	A C 3B
RA4305	A C 4B
RA4306	A C 4B
RA4307	A C 4C
RA4308	A C 4C
RA8001	B C 2B
RA8002	B C 3B
RA8003	B C 3B
RA8004	B C 3B
TEST POINT	
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TL1002	A C 2C
TL1003	A C 3C
TL1004	A C 3C
TL1021	B C 3C
TL1022	B C 2C
TL1023	B C 3C
TL1024	B C 3C
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TL1026	A C 3C
TL1029	A C 4C
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TL1036	A C 3C
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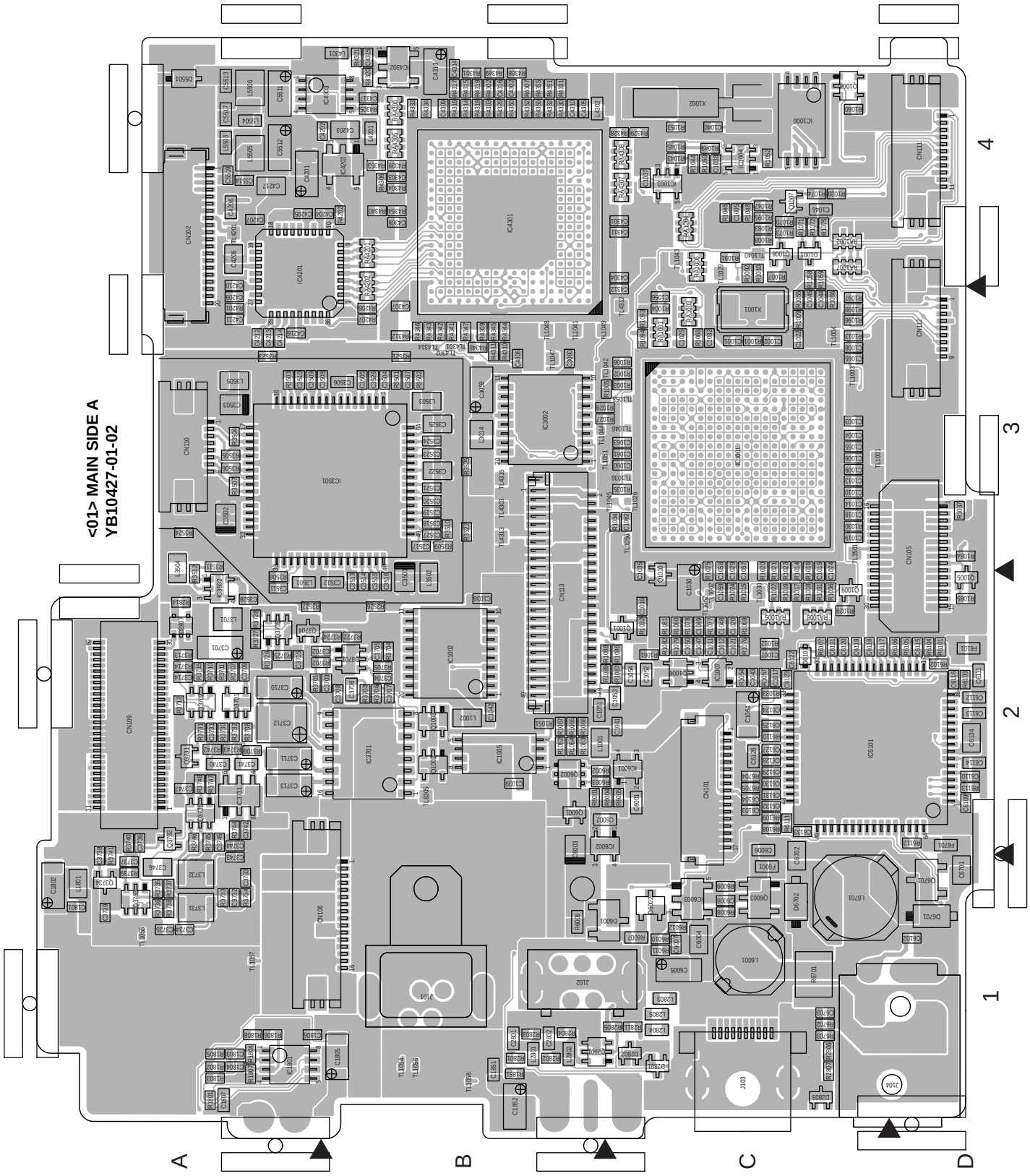
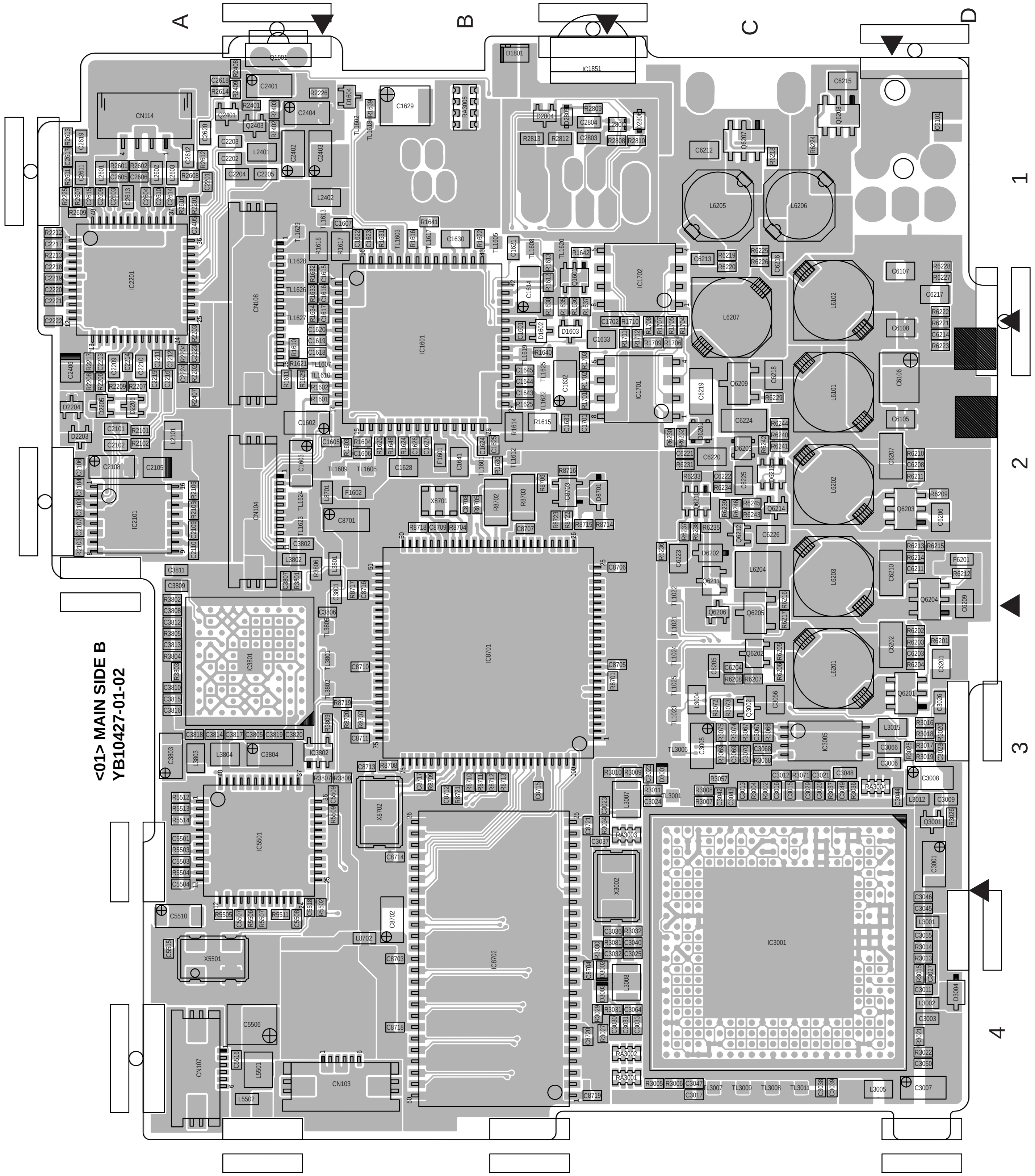
TL8012	A C 3B
TL8013	B C 3B
TL8014	B C 3B
TL8015	B C 2B
TL8016	B C 2C
TL8305	A C 2B
OTHER	
J101	A D 1B
J102	A D 1B
J103	A C 1C
J104	A D 1D
TH6601	A C 1A
X1001	A C 3C
X1002	A C 4C
X3002	B C 3C
X5501	B C 4A
X8301	A C 2B

4.44 MAIN CIRCUIT BOARD [FOR NON-MEGA PIXEL without DSC MODEL]



<01> MAIN SIDE B
YB10427-01-02



COMPONENT PARTS LOCATION GUIDE <MAIN> YB10427-01-02

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C1002	A C 3C
C1003	A C 3C
C1004	A C 3C
C1005	A C 4C
C1006	A C 3C
C1007	A C 2C
C1008	A C 3C
C1009	A C 3C
C1010	A C 3C
C1011	A C 2C
C1012	A C 2C
C1013	A C 3C
C1014	A C 3C
C1015	A C 2C
C1016	A C 2C
C1017	A C 2C
C1018	A C 3C
C1019	A C 3C
C1020	A C 2C
C1021	A C 2C
C1022	A C 3C
C1024	A C 2C
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C2204	B C 1A
C2205	B C 1A
C2209	B C 2A
C2210	B C 2A
C2211	B C 2A

REF.NO.	LOCATION
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C2217	B C 1A
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C3701	A C 2A

REF.NO.	LOCATION
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C6106	B C 2D
C6107	B C 1D
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C6109	A C 2D

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C6126	A C 2C
C6127	A C 2C
C6128	A C 2C
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C6222	B C 2C
C6223	B C 2C
C6224	B C 2C
C6225	B C 2C
C6226	B C 2C
C6701	A C 1D
C6702	A C 1C
C6703	A C 1C
C8701	B C 2B
C8702	B C 4B
C8703	B C 4B
C8704	B C 4B
C8705	B C 3C
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C8716	B C 2B
C8717	B C 3B
C8718	B C 4B
C8719	B C 4B
C8720	B C 4B
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CONNECTOR	
CN101	A C 2C
CN102	A C 4A
CN103	B C 4B
CN104	B C 2A
CN105	A C 3D
CN106	A C 1A
CN107	B C 4A
CN108	B C 1A
CN109	A C 2A
CN110	A C 3A
CN111	A C 4D
CN112	A C 3D
CN113	A C 2B
CN114	B C 1A
DIODE	
D1001	A C 4C
D1602	B C 2B
D1603	B C 2B
D1604	B C 1B
D1801	B C 1B
D2203	B C 2A
D2204	B C 2A
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D2806	B C 1C
D2807	A C 2A
D3001	B C 3C
D3002	B C 4B
D3003	B C 4B
D3004	B C 4D
D3701	A C 2A
D5501	A C 4A
D6001	A C 1C
D6002	A C 1C
D6101	A C 2C

REF.NO.	LOCATION
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D6202	B C 2C
D6203	B C 2C
D6701	A C 1D
D6702	A C 1C
D8701	B C 2B
FUSE	
F1601	B C 2B
F1602	B C 2B
F6001	A C 1C
F6101	A C 2D
F6201	B C 2D
F6701	A C 2D
IC	
IC1001	A C 3C
IC1002	A C 2B
IC1003	A C 4C
IC1004	A C 4C
IC1005	A C 2B
IC1006	A C 4C
IC1007	A C 2C
IC1601	B C 2B
IC1701	B C 2C
IC1702	B C 1C
IC1801	A C 1A
IC1851	A D 1B
IC2101	B C 2A
IC2201	B C 1A
IC3001	B C 4C
IC3002	A C 3B
IC3005	B C 3C
IC3501	A C 3B
IC3502	A C 2A
IC3701	A C 2B
IC3731	A C 2A
IC3801	B C 3A
IC3802	B C 3A
IC4201	A C 4A
IC4202	A C 4B
IC4301	A C 4B
IC4302	A C 4B
IC4303	A C 4B
IC5501	B C 3A
IC6001	A C 2C
IC6002	A C 2C
IC6003	A C 1C
IC6101	A C 2C
IC8701	B C 3B
IC8702	B C 4B
IC8703	B C 2B
COIL	
L1001	A C 2B
L1002	A C 2B
L1801	A C 1A
L2101	B C 2A
L2401	B C 1A
L2402	B C 1B
L2601	B C 1A
L2602	B C 1A
L2603	B C 1A
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L2802	A C 1B
L2803	A C 1C
L2804	A C 1C
L2805	A C 1C
L2806	B C 1C
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L3002	B C 4D
L3004	B C 3C
L3005	B C 4C
L3007	B C 3C
L3008	B C 4C
L3012	B C 3D
L3014	A C 3B
L3015	B C 3D
L3501	A C 2A
L3502	A C 2B
L3503	A C 3B
L3504	A C 3A
L3505	A C 3A
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L6207	B C 1C
L6701	A C 1C
L8701	B C 2B
L8702	B C 4B
TRANSISTOR	
Q1001	A C 2C
Q1002	A C 2B
Q1003	A C 2B
Q1004	A C 4C

REF.NO.	LOCATION
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Q1006	A C 2C
Q1007	A C 4C
Q1008	A C 4C
Q1009	A C 2C
Q1010	A C 2C
Q1601	B C 1B
Q1801	A D 1A
Q2401	B C 1A
Q2403	B C 1A
Q2801	A C 1B
Q3001	B C 3D
Q3002	B C 3C
Q3701	A C 2B
Q3702	A C 2A
Q3704	A C 2A
Q3705	A C 2A
Q3731	A C 2A
Q3732	A C 2A
Q3733	A C 1A
Q3734	A C 1A
Q3735	A C 2A
Q6001	A C 2B
Q6002	A C 2B
Q6003	A C 1C
Q6201	B C 3D
Q6202	B C 3C
Q6203	B C 2D
Q6204	B C 2D
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Q6207	B C 1C
Q6208	B C 1C
Q6209	B C 2C
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Q6211	B C 2C
Q6212	B C 2C
Q6213	B C 2C
Q6214	B C 2C
Q6701	A C 1D
RESISTOR	
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R1002	A C 3C
R1003	A C 3C
R1004	A C 3C
R1005	A C 3C
R1006	A C 3C
R1007	A C 4C
R1008	A C 4C
R1009	A C 3C
R1010	A C 4C
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R1013	A C 3C
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R1043	A C 4C
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R1080	A C 2C
R1081	A C 2C
R1082	A C 2C

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R1085	A C 2D
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R1088	A C 2C
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R2204	B C 2A
R2206	B C 2A
R2207	B C 2A
R2208	B C 2A
R2209	B C 2A
R2212	B C 1A
R2213	B C 1A
R2217	B C 2A
R2225	B C 1A
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R2403	B C 1A
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R2810	B C 1C
R2811	A C 1C
R2812	B C 1B
R2813	B C 1B
R2814	A C 2A
R3002	B C 3C

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R3006	B C 4C
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R3805	B C 3A
R3806	B C 2A
R3807	B C 3A
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R3809	B C 3B
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R4202	A C 4B
R4206	A C 3B
R4207	A C 3B
R4301	A C 4B
R4302	A C 4B
R4303	A C 4B
R4304	A C 4B
R4305	A C 4B
R4306	A C 4B
R4307	A C 4B

REF.NO.	LOCATION
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R4312	A C 3B
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R4320	A C 4B
R4321	A C 4B
R4326	A C 4B
R4328	A C 4C
R4329	A C 4C
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R4331	A C 4B
R4332	A C 4B
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R4334	A C 4B
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R4341	A C 3B
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R6222	B C 1D
R6223	B C 2D
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R6225	B C 1C
R6226	B C 1C
R6227	B C 1D
R6228	B C 1D
R6229	B C 2C
R6230	B C 2C
R6231	B C 2C
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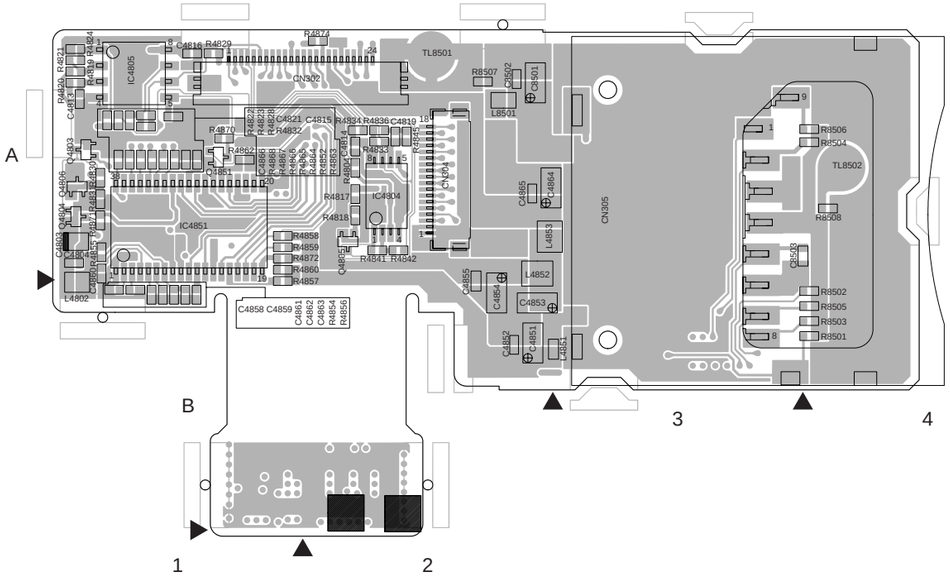
R6242	B C 2C
R6243	B C 2C

REF.NO.	LOCATION
R6244	B C 2C
R6245	B C 2C
R6246	B C 2C
R6701	A C 1C
R6702	A C 1C
R6703	A C 1C
R6704	A C 2C
R6705	A C 2C
R8701	B C 3C
R8702	B C 2B
R8703	B C 2B
R8704	B C 2B
R8705	B C 2B
R8706	B C 2B
R8707	B C 3B
R8708	B C 3B
R8709	B C 3B
R8710	B C 3B
R8711	B C 3B
R8712	B C 3B
R8713	B C 3B
R8714	B C 2B
R8715	B C 2B
R8716	B C 2B
R8717	B C 2B
R8718	B C 2B
R8719	B C 3B
R8720	B C 3B
R8721	B C 3B
R8722	B C 2B
R8723	B C 2B
RA1001	A C 3C
RA1002	A C 4C
RA1003	A C 3C
RA1004	A C 4C
RA1005	A C 2C
RA1006	A C 4C
RA1007	A C 4C
RA1008	A C 2C
RA3001	B C 4C
RA3002	B C 4C
RA3003	B C 3C
RA3004	B C 3C
RA3005	B C 1B
RA4201	A C 4B
RA4202	A C 4B
RA4305	A C 4B
RA4306	A C 4B
RA4307	A C 4C
RA4308	A C 4C
TEST POINT	
TL1001	A C 3C
TL1002	A C 2C
TL1003	A C 3C
TL1004	A C 3C
TL1021	B C 3C
TL1022	B C 2C
TL1023	B C 3C
TL1024	B C 3C
TL1025	B C 3C
TL1026	A C 3C
TL1029	A C 4C
TL1030	A C 2C
TL1036	A C 3C
TL1040	A C 4C
TL1041	A C 3B
TL1042	A C 3C
TL1043	A C 4C
TL1044	A C 3B
TL1045	A C 3C
TL1046	A C 3C
TL1047	A C 3B
TL1048	A C 3B
TL1049	A C 3B
TL1050	A C 3C
TL1051	A C 3C
TL1052	A C 2C
TL1053	A C 3C
TL1054	A C 1B
TL1055	A C 1A
TL1056	A C 1B
TL1057	A C 1A
TL1058	A C 1B
TL1601	B C 2B
TL1602	B C 1B
TL1603	B C 1B
TL1605	B C 1B
TL1606	B C 2B
TL1607	B C 2A
TL1608	B C 1B
TL1609	B C 2B
TL1610	B C 2A
TL1612	B C 2B
TL1613	B C 1B
TL1617	B C 1B
TL1618	B C 1B
TL1619	B C 2B
TL1620	B C 1B
TL1622	B C 2B
TL1623	B C 2A
TL1624	B C 2A
TL1625	B C 2B
TL1626	B C 1A
TL1627	B C 1A
TL1628	B C 1A
TL1629	B C 1A
TL3001	B C 3C
TL3006	B C 3C
TL3007	B C 4C
TL3008	B C 4C
TL3009	B C 4C
TL3011	B C 4C
TL3501	A C 3C
TL3801	B C 3B
TL3802	B C 3B
TL3805	B C 3B
TL4201	A C 4A

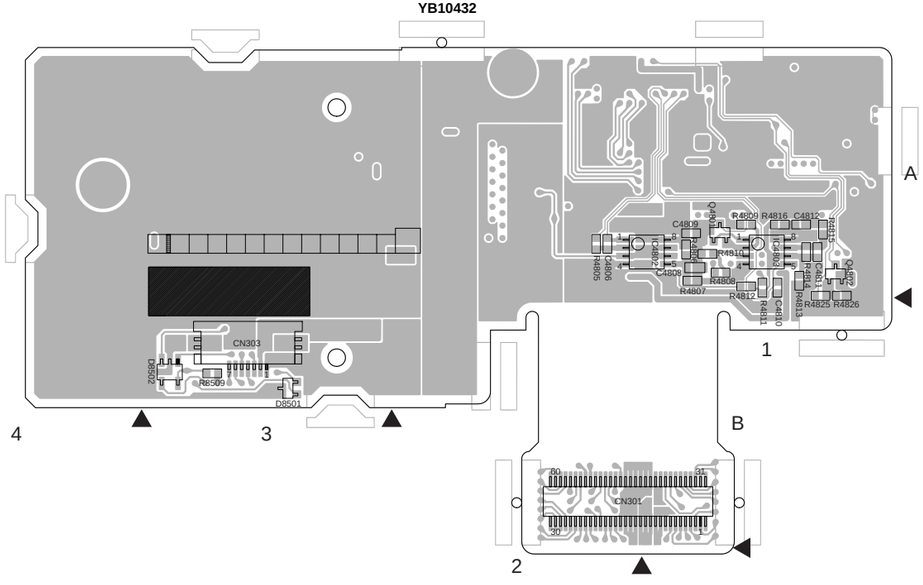
REF.NO.	LOCATION
TL4301	A C 3B
TL4302	A C 3B
TL4303	A C 3B
TL4312	A C 3C
TL4313	A C 3B
TL4314	A C 3B
TL4315	A C 3B
TL8305	A C 2B
OTHER	
J101	A D 1B
J102	A D 1B
J103	A C 1C
J104	A D 1D
X1001	A C 3C
X1002	A C 4C
X3002	B C 3C
X5501	B C 4A
X8701	B C 2B
X8702	B C 3B

4.45 SD CIRCUIT BOARD [FOR MEGA PIXEL MODEL]

<03> SD SIDE A
YB10432



<03> SD SIDE B
YB10432

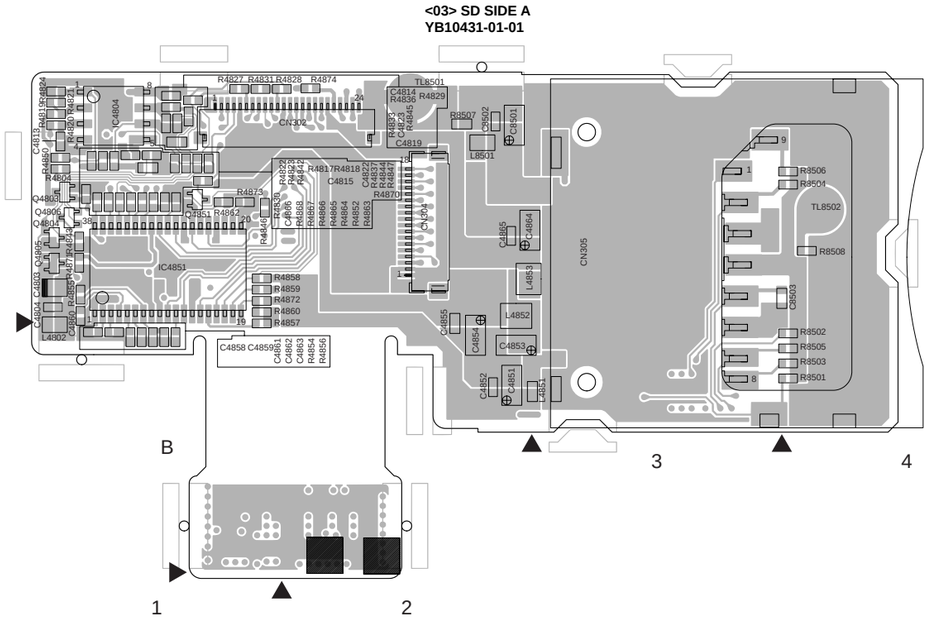


COMPONENT PARTS LOCATION GUIDE <SD> YB10432

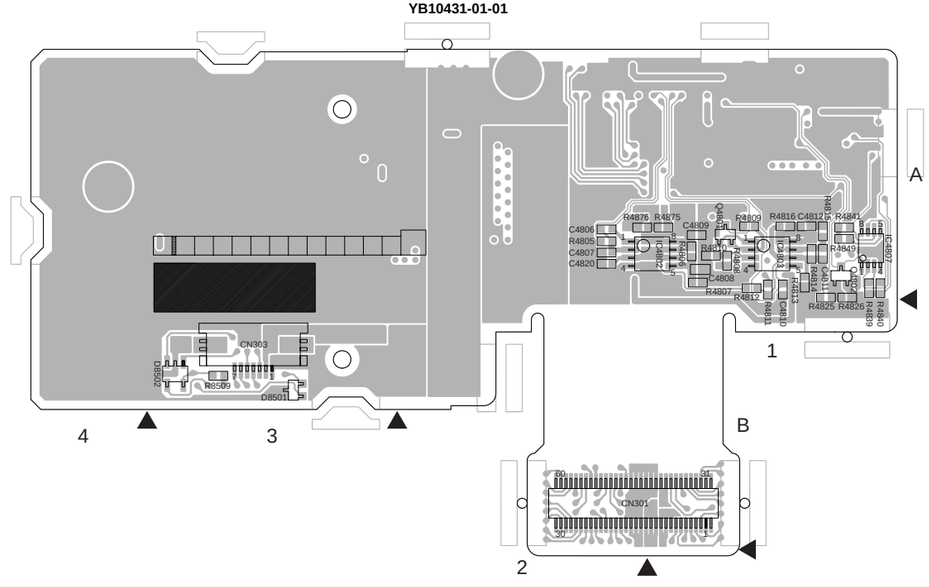
REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C4858	A C 1B	**DIODE**		Q4802	B C 1A	R4816	B C 1A	R4842	A C 2A	R4874	A C 2A
C4803	A C 1A	C4859	A C 1B	D8501	B C 3B	Q4803	A C 1A	R4817	A C 2A	R4845	A C 2A	R8501	A C 4B
C4804	A C 1A	C4860	A C 1A	D8502	B C 3B	Q4804	A C 1A	R4818	A C 2A	R4852	A C 1A	R8502	A C 4B
C4806	B C 2A	C4861	A C 1B			Q4805	A C 2A	R4819	A C 1A	R4854	A C 1B	R8503	A C 4B
C4808	B C 1A	C4862	A C 1B	**IC**		Q4806	A C 1A	R4820	A C 1A	R4855	A C 1A	R8504	A C 4A
C4809	B C 1A	C4863	A C 1B	IC4802	B C 1A	Q4851	A C 1A	R4821	A C 1A	R4856	A C 1B	R8505	A C 4B
C4810	B C 1A	C4864	A C 2A	IC4803	B C 1A			R4822	A C 1A	R4857	A C 1B	R8506	A C 4A
C4811	B C 1A	C4865	A C 2A	IC4804	A C 2A	**RESISTOR**		R4823	A C 1A	R4858	A C 1A	R8507	A C 2A
C4812	B C 1A	C4866	A C 1A	IC4805	A C 1A	R4804	A C 2A	R4824	A C 1A	R4859	A C 1A	R8508	A C 4A
C4813	A C 1A	C8501	A C 2A	IC4851	A C 1A	R4805	B C 2A	R4825	B C 1A	R4860	A C 1A	R8509	B C 3B
C4814	A C 2A	C8502	A C 2A			R4806	B C 1A	R4826	B C 1A	R4862	A C 1A		
C4815	A C 1A	C8503	A C 4A	**COIL**		R4807	B C 1A	R4828	A C 1A	R4863	A C 1A	**TEST POINT**	
C4816	A C 1A			L4802	A C 1B	R4808	B C 1A	R4829	A C 1A	R4864	A C 1A	TL8501	A D 2A
C4819	A C 2A	**CONNECTOR**		L4851	A C 3B	R4809	B C 1A	R4830	A C 1A	R4865	A C 1A	TL8502	A D 4A
C4821	A C 1A	CN301	B C 2B	L4852	A C 2A	R4810	B C 1A	R4831	A C 1A	R4866	A C 1A		
C4851	A C 2B	CN302	A C 1A	L4853	A C 2A	R4811	B C 1A	R4832	A C 1A	R4867	A C 1A		
C4852	A C 2B	CN303	B C 3B	L8501	A C 2A	R4812	B C 1A	R4833	A C 2A	R4868	A C 1A		
C4853	A C 2B	CN304	A C 2A			R4813	B C 1A	R4834	A C 2A	R4870	A C 1A		
C4854	A C 2B	CN305	A C 3A	**TRANSISTOR**		R4814	B C 1A	R4836	A C 2A	R4871	A C 1A		
C4855	A C 2B			Q4801	B C 1A	R4815	B C 1A	R4841	A C 2A	R4872	A C 1A		

4.46 SD CIRCUIT BOARD [FOR NON-MEGA PIXEL MODEL]

<03> SD SIDE A
YB10431-01-01



<03> SD SIDE B
YB10431-01-01



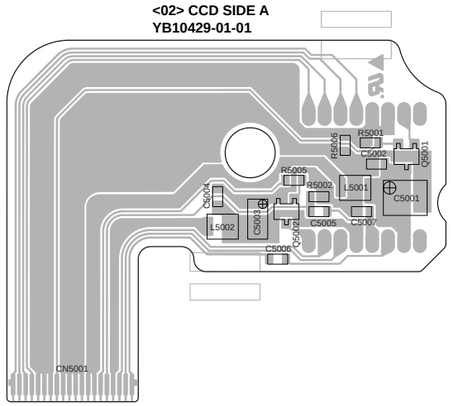
COMPONENT PARTS LOCATION GUIDE <SD> YB10431-01-01

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C4851	A C 2B			IC4851	A C 1A			R4819	A C 1A	R4840	B C 1A
C4803	A C 1A	C4852	A C 2B	**CONNECTOR**				**RESISTOR**		R4820	A C 1A	R4841	B C 1A
C4804	A C 1A	C4853	A C 2B	CN301	B C 2B	**COIL**		R4804	A C 1A	R4821	A C 1A	R4842	A C 1A
C4806	B C 2A	C4854	A C 2B	CN302	A C 2A	L4802	A C 1B	R4805	B C 2A	R4822	A C 1A	R4843	A C 1A
C4807	B C 2A	C4855	A C 2B	CN303	B C 3B	L4851	A C 3B	R4806	B C 1A	R4823	A C 1A	R4844	A C 1A
C4808	B C 1A	C4858	A C 1B	CN304	A C 2A	L4852	A C 2A	R4807	B C 1A	R4824	A C 1A	R4845	A C 1A
C4809	B C 1A	C4859	A C 1B	CN305	A C 3A	L4853	A C 2A	R4808	B C 1A	R4825	B C 1A	R4846	A C 1A
C4810	B C 1A	C4860	A C 1A			L8501	A C 2A	R4809	B C 1A	R4826	B C 1A	R4847	A C 1A
C4811	B C 1A	C4861	A C 1B	**DIODE**				R4810	B C 1A	R4827	A C 1A	R4849	B C 1A
C4812	B C 1A	C4862	A C 1B	D8501	B C 3B	**TRANSISTOR**		R4811	B C 1A	R4828	A C 2A	R4850	A C 1A
C4813	A C 1A	C4863	A C 1B	D8502	B C 3B	Q4801	B C 1A	R4812	B C 1A	R4829	A C 1A	R4852	A C 1A
C4814	A C 1A	C4864	A C 2A			Q4802	B C 1A	R4813	B C 1A	R4830	A C 1A	R4854	A C 1B
C4815	A C 1A	C4865	A C 2A	**IC**		Q4803	A C 1A	R4814	B C 1A	R4831	A C 1A	R4855	A C 1A
C4819	A C 1A	C4866	A C 1A	IC4802	B C 1A	Q4804	A C 1A	R4815	B C 1A	R4833	A C 1A	R4856	A C 1B
C4820	B C 2A	C8501	A C 2A	IC4803	B C 1A	Q4805	A C 1A	R4816	B C 1A	R4836	A C 1A	R4857	A C 1B
C4822	A C 1A	C8502	A C 2A	IC4804	A C 1A	Q4806	A C 1A	R4817	A C 1A	R4837	A C 1A	R4858	A C 1A
C4823	A C 1A	C8503	A C 4A	IC4807	B C 1A	Q4851	A C 1A	R4818	A C 1A	R4839	B C 1A	R4859	A C 1A

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
R4860	A C 1A	R8503	A C 4B				
R4862	A C 1A	R8504	A C 4A				
R4863	A C 1A	R8505	A C 4B				
R4864	A C 1A	R8506	A C 4A				
R4865	A C 1A	R8507	A C 2A				
R4866	A C 1A	R8508	A C 4A				
R4867	A C 1A	R8509	B C 3B				
R4868	A C 1A						
R4870	A C 1A	**TEST POINT**					
R4871	A C 1A	TL8501	A D 2A				
R4872	A C 1A	TL8502	A D 4A				
R4874	A C 2A						
R4875	B C 1A						
R4876	B C 2A						
R8501	A C 4B						
R8502	A C 4B						

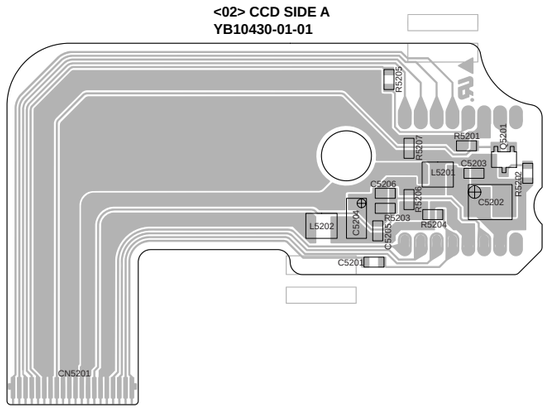
4.47 CCD CIRCUIT BOARD [FOR MEGA PIXEL MODEL]

<02> CCD SIDE A
YB10429-01-01



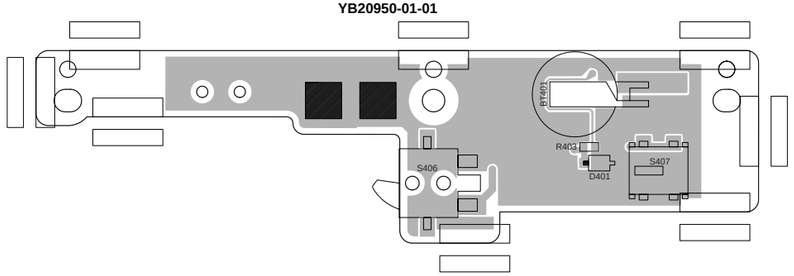
4.48 CCD CIRCUIT BOARD [FOR NON-MEGA PIXEL MODEL]

<02> CCD SIDE A
YB10430-01-01

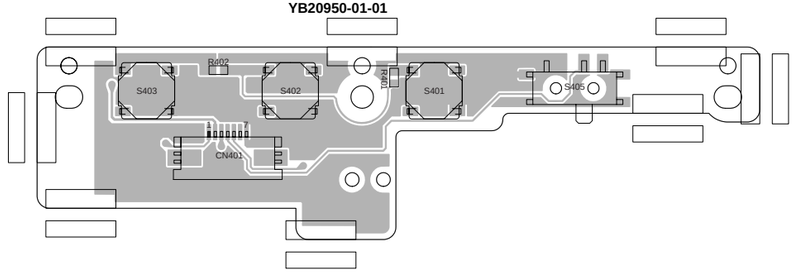


4.49 SIDE OPE CIRCUIT BOARD

<04> SIDE OPE SIDE A
YB20950-01-01

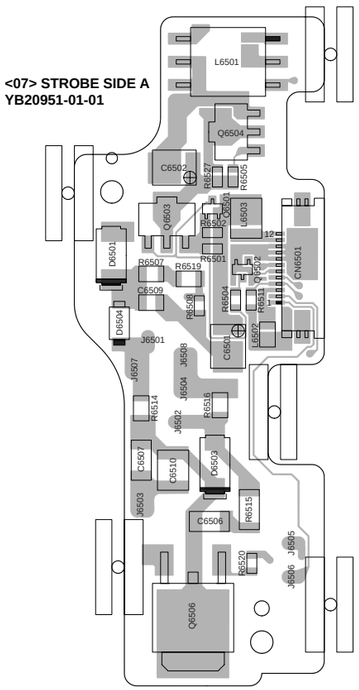


<04> SIDE OPE SIDE B
YB20950-01-01

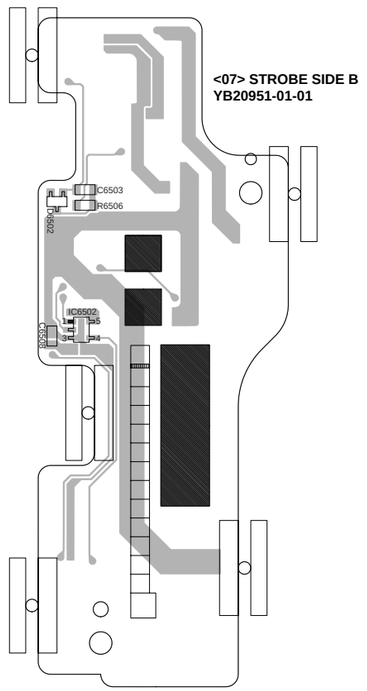


4.50 STROBE CIRCUIT BOARD [FOR STROBE MODEL]

<07> STROBE SIDE A
YB20951-01-01

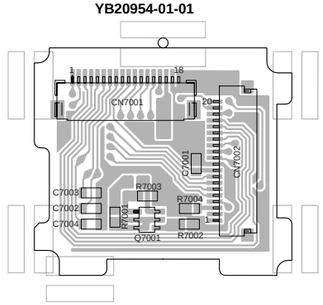


<07> STROBE SIDE B
YB20951-01-01

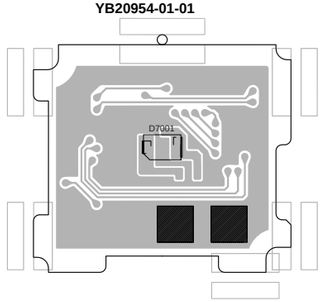


4.51 VFBW CIRCUIT BOARD

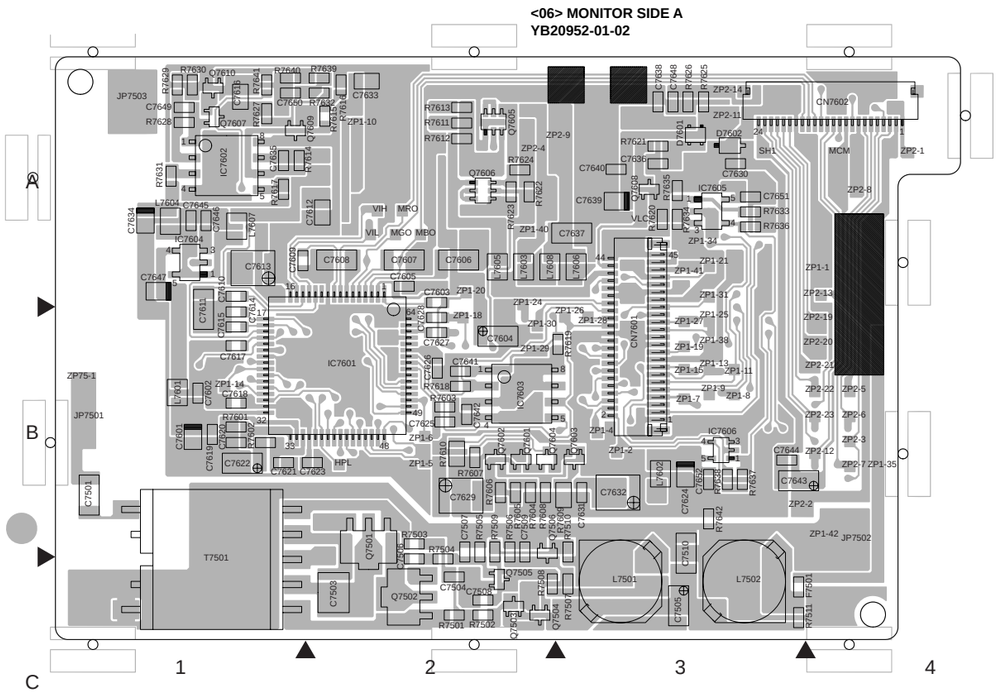
<08> VFBW SIDE A
YB20954-01-01



<08> VFBW SIDE B
YB20954-01-01



4.52 MONITOR CIRCUIT BOARD



COMPONENT PARTS LOCATION GUIDE <MONITOR> YB20952-01-02

REF.NO.	LOCATION
CAPACITOR	
C7501	A C 1B
C7503	A C 2C
C7504	A C 2C
C7505	A C 3C
C7506	A C 2C
C7507	A C 2B
C7508	A C 2C
C7509	A C 2B
C7510	A C 3B
C7601	A C 1B
C7602	A C 1B
C7603	A C 2A
C7604	A C 2B
C7605	A C 2A
C7606	A C 2A
C7607	A C 2A
C7608	A C 2A
C7609	A C 1A
C7610	A C 1A
C7611	A C 1B
C7612	A C 2A
C7613	A C 1A
C7614	A C 1B
C7615	A C 1B
C7616	A C 1A
C7617	A C 1B
C7618	A C 1B
C7619	A C 1B
C7620	A C 1B
C7621	A C 1B
C7622	A C 1B
C7623	A C 2B
C7624	A C 3B
C7625	A C 2B
C7626	A C 2B
C7627	A C 2B
C7628	A C 2B
C7629	A C 2B
C7630	A C 3A
C7631	A C 3B
C7632	A C 3B
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C7634	A C 1A
C7635	A C 1A
C7636	A C 3A
C7637	A C 3A
C7638	A C 3A
C7639	A C 3A
C7640	A C 3A
C7641	A C 2B
C7642	A C 2B
C7643	A C 3B
C7644	A C 3B
C7645	A C 1A
C7646	A C 1A
C7647	A C 1A
C7648	A C 3A
C7649	A C 1A
C7650	A C 1A
C7651	A C 3A
C7652	A C 3B
CONNECTOR	
CN7601	A C 3B
CN7602	A C 4A
DIODE	
D7601	A C 3A
D7602	A C 3A
FUSE	
F7501	A C 3C
IC	
IC7601	A C 2B
IC7602	A C 1A
IC7603	A C 2B
IC7604	A C 1A
IC7605	A C 3A
IC7606	A C 3B
COIL	
L7501	A C 3C
L7502	A C 3C
L7601	A C 1B
L7602	A C 3B
L7603	A C 2A
L7604	A C 1A
L7605	A C 2A
L7606	A C 3A
L7607	A C 1A
L7608	A C 2A
TRANSISTOR	
Q7501	A C 2B
Q7502	A C 2C
Q7503	A C 2C
Q7504	A C 2C
Q7505	A C 2C
Q7506	A C 2B
Q7601	A C 2B
Q7602	A C 2B
Q7603	A C 3B
Q7604	A C 2B
Q7605	A C 2A
Q7606	A C 2A
Q7607	A C 1A
Q7608	A C 3A
Q7609	A C 1A
Q7610	A C 1A
RESISTOR	
R7501	A C 2C
R7502	A C 2C
R7503	A C 2B
R7504	A C 2C
R7505	A C 2B
R7506	A C 2B
R7507	A C 3C
R7508	A C 2C
R7509	A C 2B
R7510	A C 3B
R7511	A C 3C
R7602	A C 1B
R7603	A C 2B
R7604	A C 2B
R7605	A C 2B
R7606	A C 2B
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R7608	A C 2B
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R7613	A C 2A
R7614	A C 1A
R7615	A C 2A
R7616	A C 2A
R7617	A C 1A
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R7621	A C 3A
R7622	A C 2A
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R7624	A C 2A
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R7626	A C 3A
R7627	A C 1A
R7628	A C 1A
R7629	A C 1A
R7630	A C 1A
R7631	A C 1A
R7632	A C 2A
R7633	A C 3A
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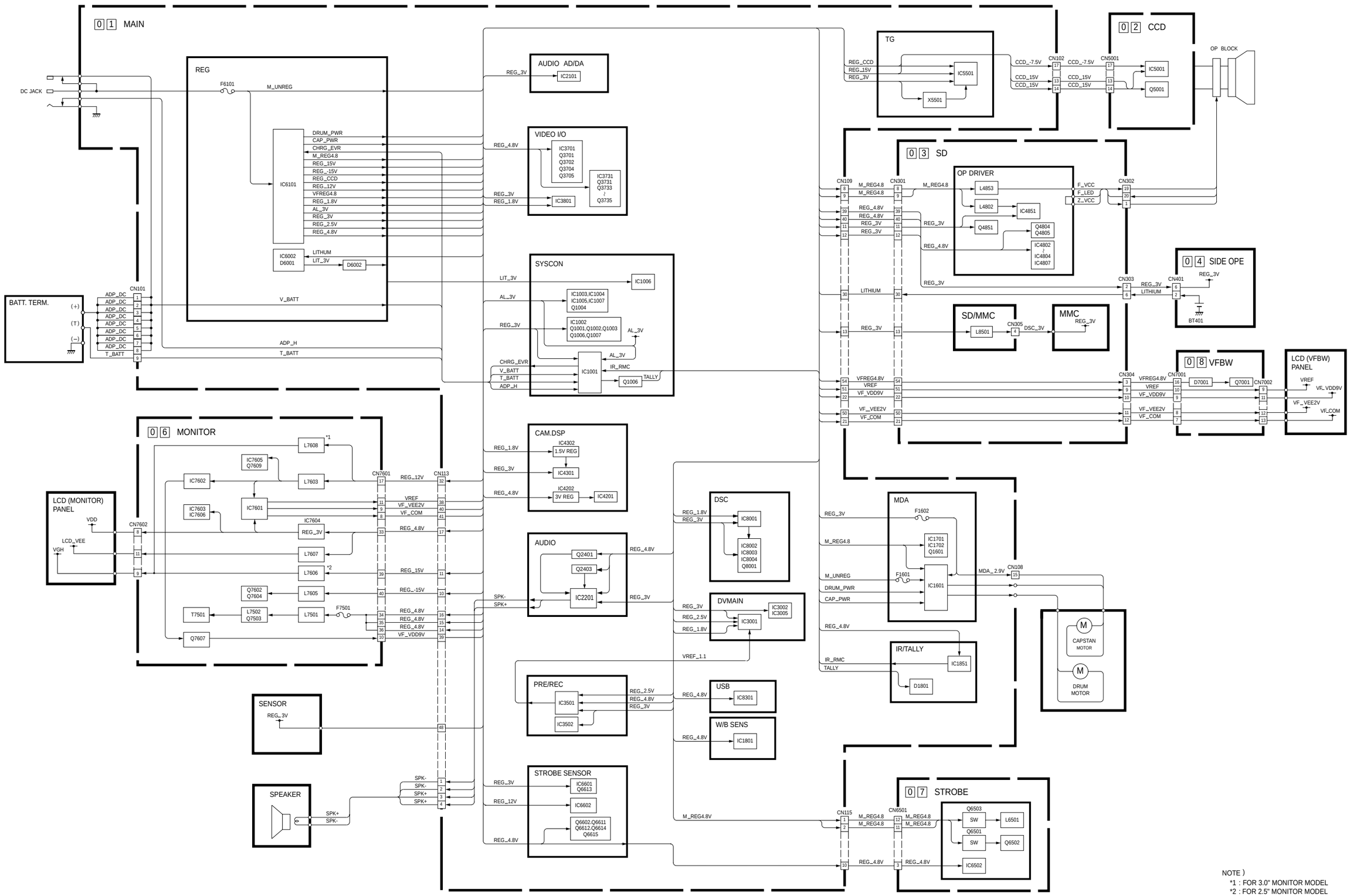
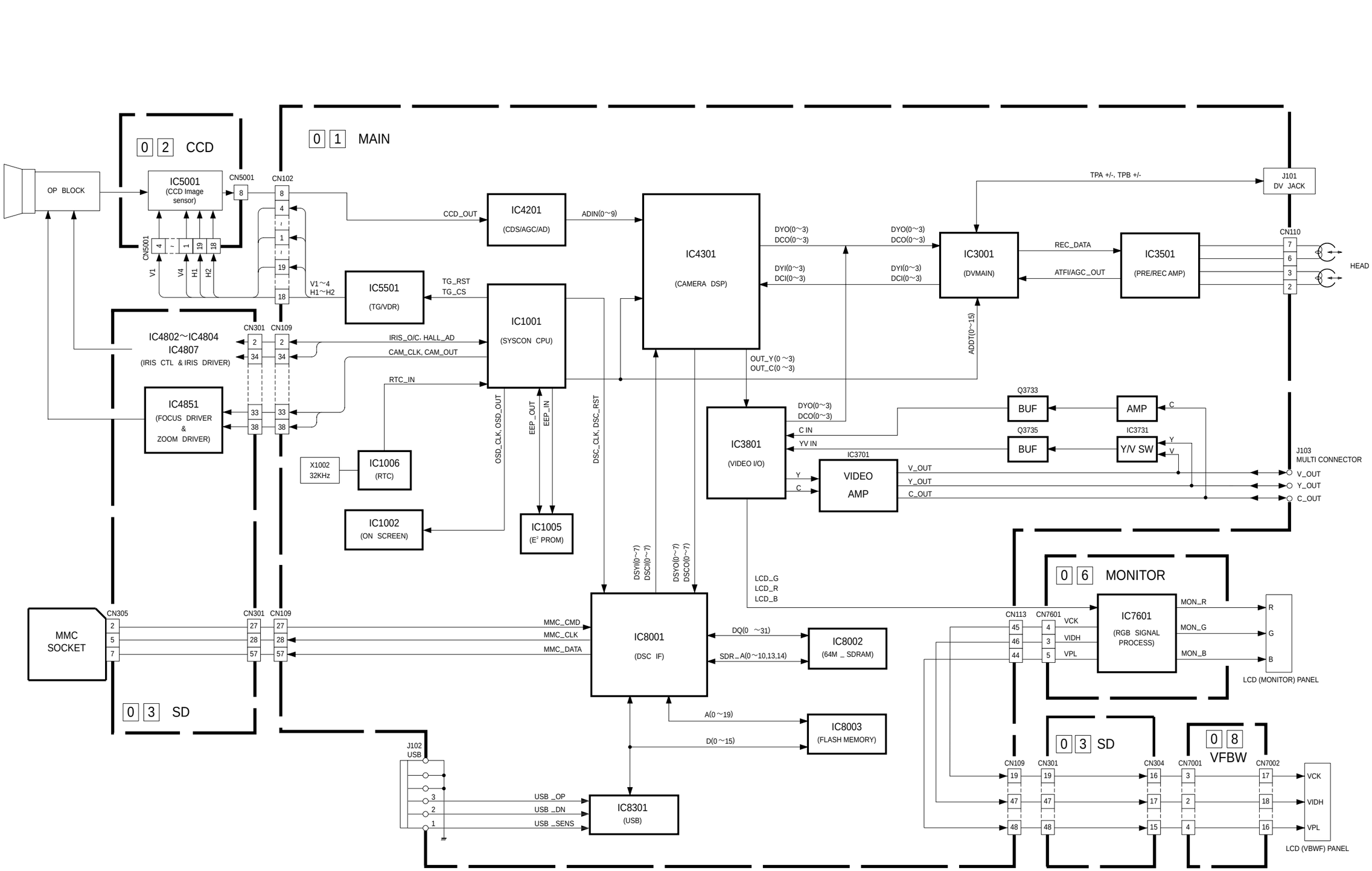
R7635	A C 3A
R7636	A C 3A
R7637	A C 3B
R7638	A C 3B
R7639	A C 2A
R7640	A C 1A
R7641	A C 1A
R7642	A C 3B
OTHER	
JP7501	A C 1B
JP7502	A C 4B
JP7503	A C 1A
SH1	A C 3A
T7501	A C 1C
ZP1-1	A C 4A
ZP1-2	A C 3B
ZP1-4	A C 3B
ZP1-5	A C 2B
ZP1-6	A C 2B
ZP1-7	A C 3B
ZP1-8	A C 3B
ZP1-9	A C 3B
ZP2-1	A C 4A
ZP2-2	A C 3B
ZP2-3	A C 4B
ZP2-4	A C 2A
ZP2-5	A C 4B
ZP2-6	A C 4B
ZP2-7	A C 4B
ZP2-8	A C 4A
ZP2-9	A C 2A
ZP1-10	A C 2A
ZP1-11	A C 3B
ZP1-13	A C 3B
ZP1-14	A C 1B
ZP1-15	A C 3B
ZP1-18	A C 2B
ZP1-19	A C 3B
ZP1-20	A C 2A
ZP1-21	A C 3A
ZP1-25	A C 3B
ZP1-26	A C 4B
ZP1-27	A C 3B
ZP1-28	A C 3B
ZP1-31	A C 3A
ZP1-34	A C 3A
ZP1-35	A C 4B
ZP1-38	A C 3B
ZP1-40	A C 2A
ZP1-41	A C 3A
ZP1-42	A C 4B
ZP2-10	A C 2A
ZP2-11	A C 2A
ZP2-12	A C 4B
ZP2-13	A C 4A
ZP2-14	A C 3A
ZP2-19	A C 4B
ZP2-20	A C 4B
ZP2-21	A C 4B
ZP2-22	A C 4B
ZP2-23	A C 4B
ZP75-1	A C 1B

4.53 POWER SYSTEM BLOCK DIAGRAM



NOTE)
*1 : FOR 3.0" MONITOR MODEL
*2 : FOR 2.5" MONITOR MODEL

4.54 VIDEO SYSTEM BLOCK DIAGRAM



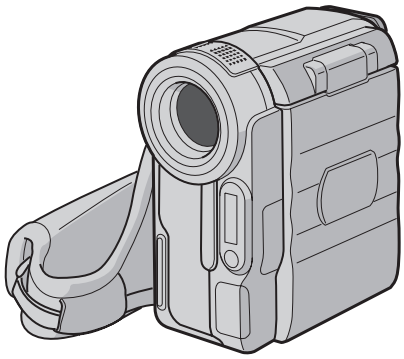
(VP)-M3D3

JVC

SERVICE MANUAL

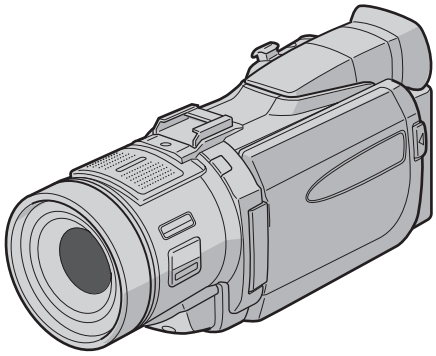
DIGITAL VIDEO CAMERA

DISASSEMBLY



Mini DV

DSC DIGITAL STILL CAMERA



GR-DX Series

Manual No.	Model name
86735	GR-DX25EX,GR-DX25EY,GR-DX25EZ,GR-DX25EK,GR-DX35EX,GR-DX35EY,GR-DX35EZ,GR-DX35EK
86740	GR-DX75EX,GR-DX75EY,GR-DX75EZ,GR-DX75EK,GR-DX95EX,GR-DX95EY,GR-DX95EZ,GR-DX95EK
86751	GR-DX100EX,GR-DX100EY,GR-DX100EZ,GR-DX100EK,GR-DX300EX,GR-DX300EY,GR-DX300EZ,GR-DX300EK
86752	GR-DX45EX,GR-DX45EY,GR-DX45EZ,GR-DX45EK,GR-DX55EX,GR-DX55EY,GR-DX55EZ,GR-DX55EK
86753	GR-DX75AA,GR-DX75AG,GR-DX75AH,GR-DX75AS,GR-DX76AG
86754	GR-DX35AC,GR-DX35AH
86755	GR-DX95AC,GR-DX95AH
86757	GR-DX75US,GR-DX95US
86762	GR-DX106AG
86763	GR-DX300AA,GR-DX300AG
86764	GR-DX300AC,GR-DX300AH
86765	GR-DX75KR,GR-DX95KR
86766	GR-DX300US

GR-DV Series

Manual No.	Model name
86734	GR-DV500US,GR-DV800US,GR-DV801US,GR-DV900US
86736	GR-DV4000US
86756	GR-DV4000EX,GR-DV4000EY,GR-DV4000EZ,GR-DV4000EK
86758	GR-DV700EX,GR-DV700EY,GR-DV700EZ,GR-DV700EK
86759	GR-DV500KR,GR-DV700KR,GR-DV800KR,GR-DV900KR,GR-DV4000KR,GR-DV5000KR
86760	GR-DV400EX,GR-DV400EY, GR-DV500EX,GR-DV500EY,GR-DV500EZ
86767	GR-DV4000AG,GR-DV5000AA,GR-DV5000AG
86768	GR-DV500AA,GR-DV500AG,GR-DV500AS,GR-DV900AA,GR-DV900AG
86771	GR-DV700AH,GR-DV900AC,GR-DV4000AC,GR-DV5000AC

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No.YF009
2003/12

SECTION 1
DISASSEMBLY (GR-DX Series)

1.1 BEFORE ASSEMBLY AND DISASSEMBLY

1.1.1 Precautions

- Be sure to disconnect the power supply unit prior to mounting and soldering of parts.
- Prior to removing a component part that needs to disconnect its connector(s) and its screw(s), first disconnect the wire(s) from the connector(s), and then remove the screw(s).
- When connecting/disconnecting wires, pay enough attention not to damage the connectors.
- When inserting the flat wire to the connector, pay attention to the direction of the flat wire.
- Be careful in removing the parts to which some spacer or shield is attached for reinforcement or insulation.
- When replacing chip parts (especially IC parts), first remove the solder completely to prevent peeling of the pattern.
- Tighten screws properly during the procedures. Unless specified otherwise, tighten screws at a torque of 0.088N·m (0.9kgf·cm). However, 0.088N·m (0.9kgf·cm) is a value at the time of production. At the time of service, perform the procedure at a torque 10% less than 0.088N·m (0.9kgf·cm). (See "SERVICE NOTE" as for tightening torque.)

1.1.2 Destination of connectors

Two kinds of double-arrows in connection tables respectively show kinds of connector/wires.

⇔ : Flat wire ↔ : Wire ⬌ : Board to board (B-B)
: The connector of the side to remove

CONN. No.	CONNECTOR					PIN No.
CN2a	MAIN	CN101	⇔	MONI/BW	CN761	40
CN2b	MAIN	CN103	↔	MIC	CN762	2

1.1.3 Disconnection of connectors (Wires)

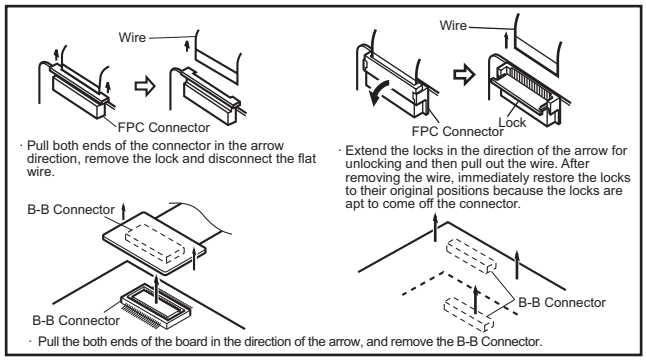
Wire
FPC Connector
· Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.
Wire
FPC Connector
Lock
· Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.
B-B Connector
B-B Connector
B-B Connector
· Pull the both ends of the board in the direction of the arrow, and remove the B-B Connector.

Fig.3-1-1

1.1.4 Tools required for disassembly and assembly

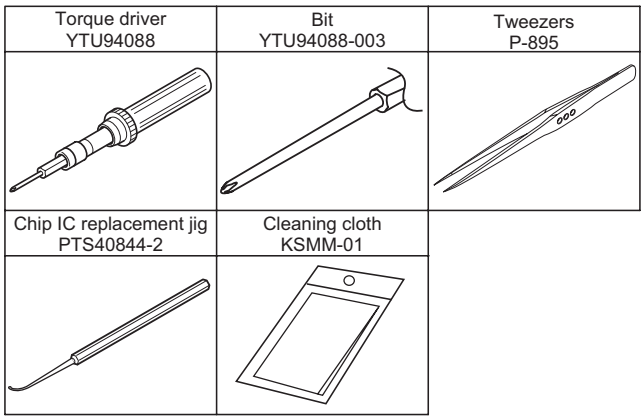

Fig.3-1-2

- **Torque driver**
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- **Bit**
  This bit is slightly longer than those set in conventional torque drivers.
- **Tweezers**
  To be used for removing and installing parts and wires.
- **Chip IC replacement jig**
  To be used for replacement of IC.
- **Cleaning cloth**
  Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

1.2 ASSEMBLY AND DISASSEMBLY OF MAIN PARTS

1.2.1 Assembly and disassembly

When reassembling, perform the step(s) in reverse order.

STEP No.	PART	Fig. No.	POINT	NOTE
[1]	TOP COVER ASSEMBLY	Fig.C1	S1,2(L1)	-
[2]	UPPER ASSEMBLY (Inc. VF ASSEMBLY, SPEAKER/MONITOR)	Fig.C2-1	S2a,2(S2b),3(S2c) 2(S2d),S2e,S2c L2,CN2a,b	-
[8]	VF ASSEMBLY	Fig.C2-2	2(S8),L8,CN8a	NOTE 8a NOTE 8b
(∗1)	(∗2)	(∗3)	(∗4)	(∗5)

(∗1) Order of steps in Procedure
When reassembling, preform the step(s) in the reverseorder. These numbers are also used as the identification (location) No. of parts Figures.
(∗2) Part to be removed or installed.
(∗3) Fig. No. showing Procedure or Part Location.
C = CABINET
(∗4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.
S = Screw
L = Lock, Release, Hook
SD = Solder
CN = Connector

[Example]

- 4 (S1a) = Remove four S1a screws.
- 3 (L1a) = Disengage three L1a hooks.
- 2 (SD1a) = Unsolder two SD1a points.
- CN1a = Remove a CN1a connector.

(∗5) Adjustment information for installation.

1.2.2 ASSEMBLY/DISASSEMBLY OF CABINET PARTS AND ELECTRICAL PARTS

●Disassembly procedure

Step No.	Parts Name	Fig. No.	Point	Note
[1]	COVER(TOP)	Fig.C1	(S1a),3(S1b),2(L1)	-
[2]	COVER(MIC)		L2	-
[3]	FRONT COVER ASSY	Fig.C2	2(S3a),(S3b),(S3c),(S3d),CN3,HOLDER(DV/USB)	NOTE3a,b,c
[4]	COVER(DV)	Fig.C3	(S4a),(S4b)	-
[5]	UPPER ASSY	Fig.C4	(S5a),(S5b),2(S5c),(S5d),(S5c),(S5d),(S5e),CN5a,CN5b	NOTE5a,b
[6] /[7]	MAIN BOARD ASSY /MECHANISM ASSY	Fig.C5-1 Fig.C5-2	CN6a,b,c,d,e,(S6a),3(S6b),2(S6c),L6a,SHELD PLATE,L6b,CN6f,g,h,i,k,m	NOTE6a,b
			(S7a),3(S7b),BKT(PRE/REC),MECHA BKT ASSY	-
[8] /[9]	OP BLOCK ASSY /MIC ASSY	Fig.C6	(S8),BKT(TOP),L8,CN8	NOTE8
[10]	VF ASSY	Fig.C7	CN10,2(S10)	NOTE10

NOTE 3a:
Open the CASSETTE COVER, and remove the two screws (No.7 and 8).

NOTE3b:
Take care not to cut the FPC and wire.

NOTE3c:
Be careful about the HOLDER (DV/USB) because it is removed together with the FRONT COVER ASSY.

NOTE5a:
Take care not to damage the part.

NOTE5b:
Take care not to cut the FPC.

NOTE6a:
Remove the MIC wire while removing the MAIN BOARD ASSY.

NOTE6b:
Take care not to cut the FPC.

NOTE8:
Take care not to damage the LENS in OP BLOCK ASSY and not to cut the FPC.

NOTE10:
Take care not to cut the FPC.

●Destination of connectors

CN No.	CONNECTOR					Pin. No.
CN3	MAIN	CN115	⇔	STROBE	CN6501	12
CN5a	MAIN	CN113	⇔	MONITOR	CN7601	49/45
CN5b	MAIN	CN112	⇔	SUB OPE UNIT	-	9
CN6a	MAIN	CN101	⇔	BATT.TERM.	-	17
CN6b	MAIN	CN109	⇔	SD	CN301	60
CN6c	MAIN	CN102	⇔	CCD	-	20
CN6d	MAIN	CN111	⇔	CAMERA OPE UNIT	-	11
CN6e	MAIN	CN114	↔	MIC	-	4
CN6f	MAIN	CN106	⇔	SENSOR	-	16
CN6g	MAIN	CN110	⇔	HEAD	-	8
CN6h	MAIN	CN103	⇔	LOADING MOTOR	-	6
CN6j	MAIN	CN107	⇔	ROTARY ENCODER SW	-	6
CN6k	MAIN	CN104	⇔	DRUM MOTOR	-	11
CN6m	MAIN	CN108	⇔	CAPSTAN MOTOR	-	18
CN8	SD	CN302	⇔	OP BLOCK ASSY	-	24
CN10	SD	CN304	⇔	VF BW	CN7001	18

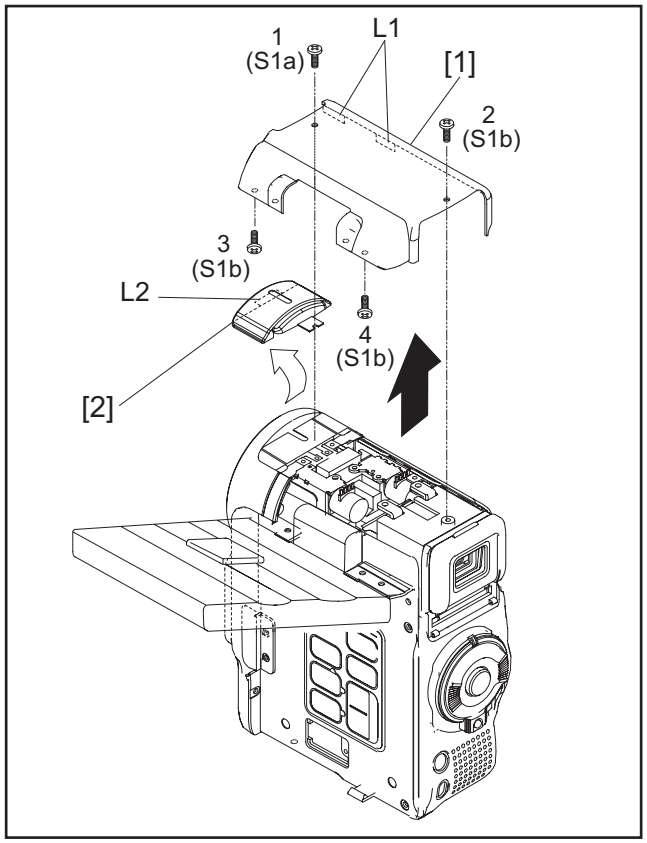

Fig.C1

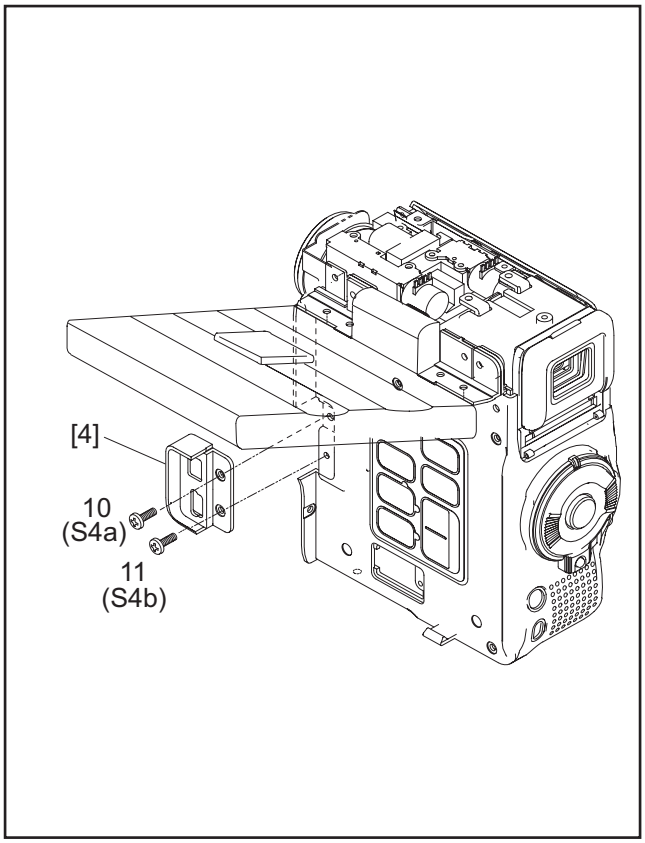

Fig.C3

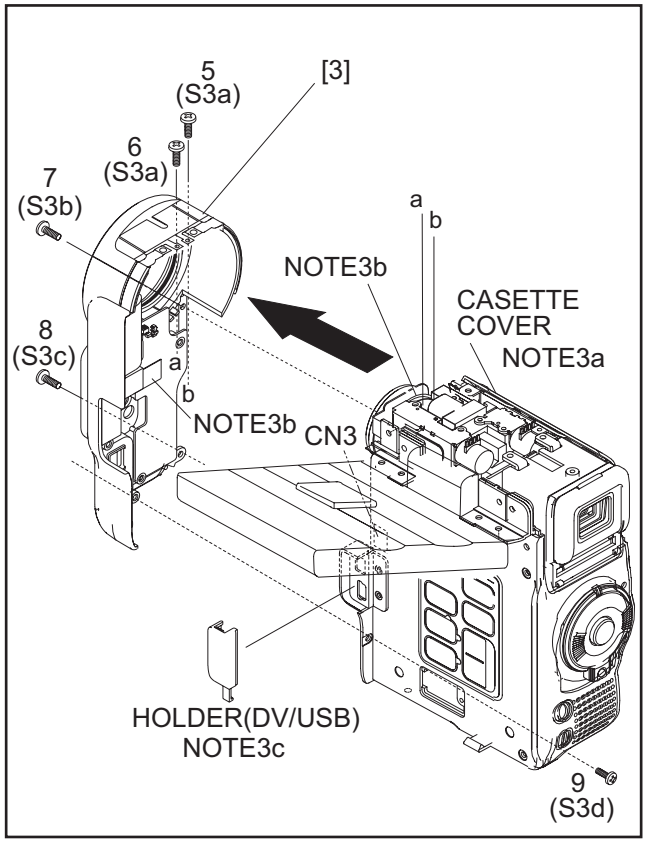

Fig.C2

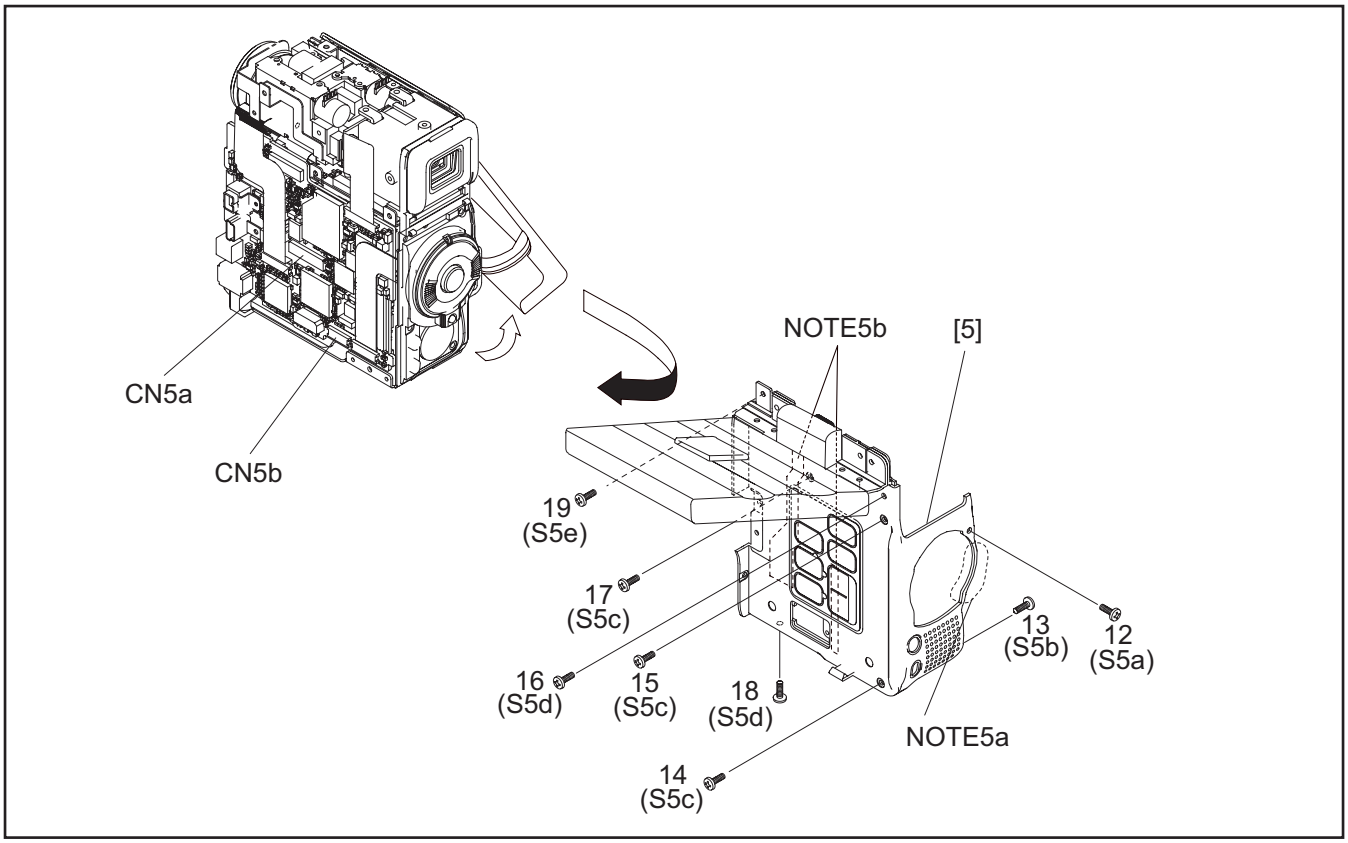

Fig.C4

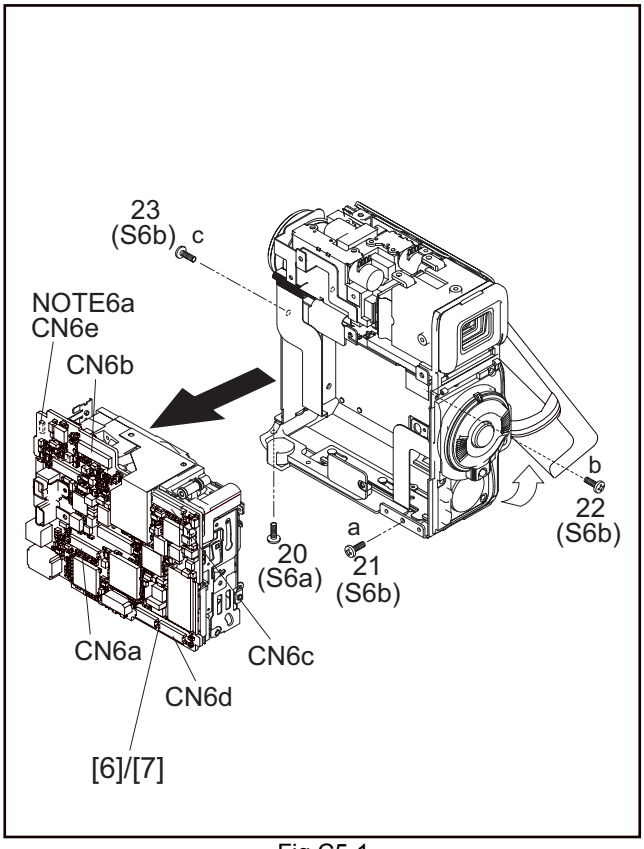

Fig.C5-1

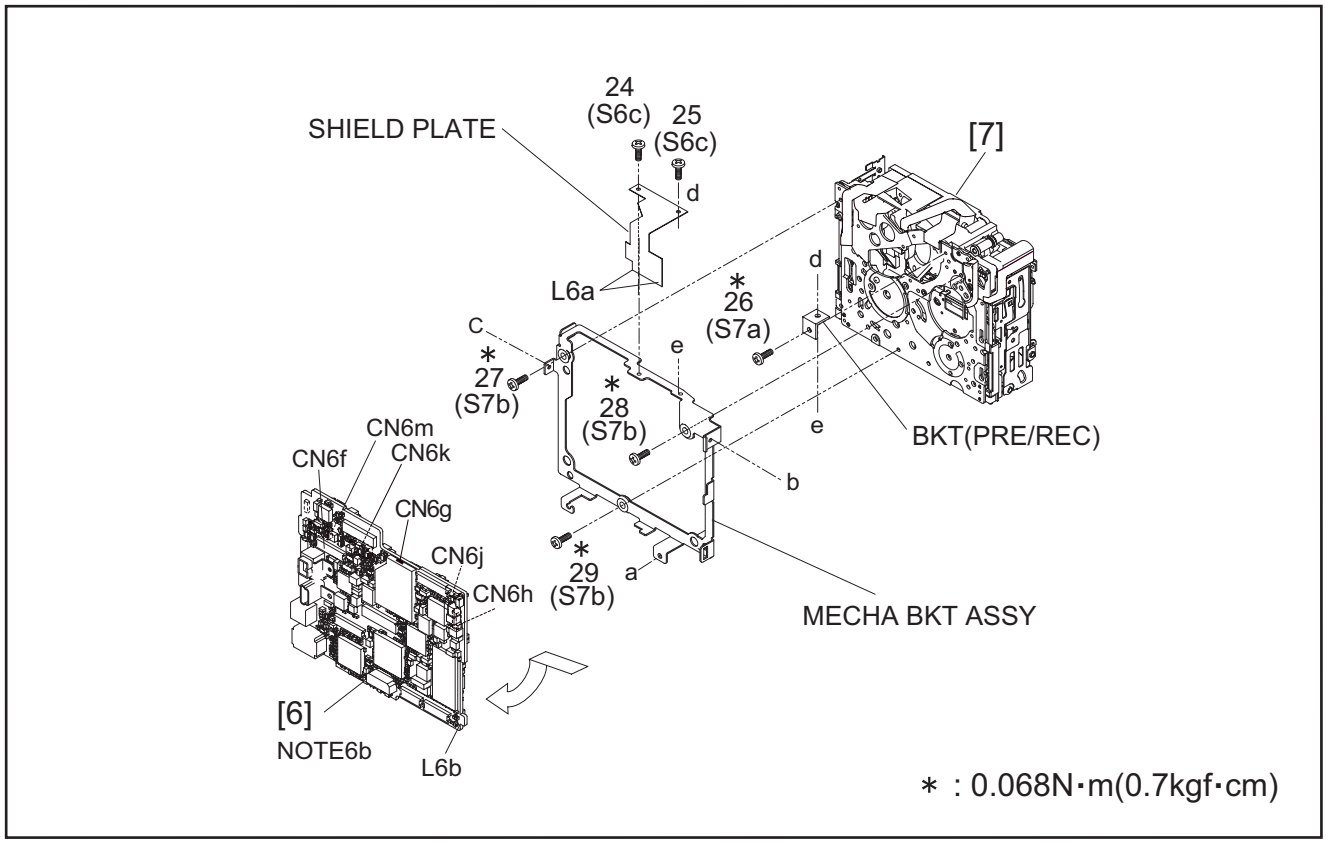

Fig.C5-2

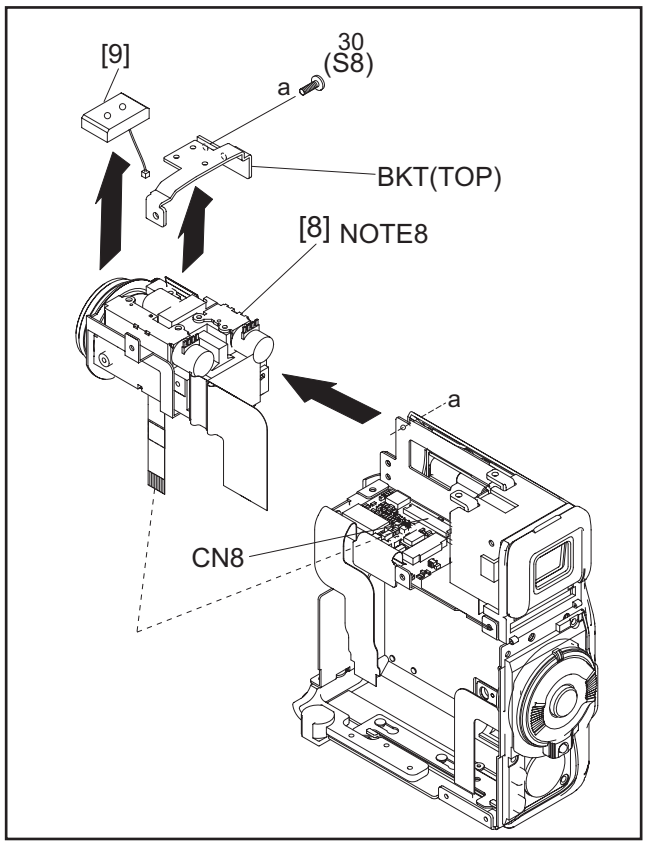

Fig.C6

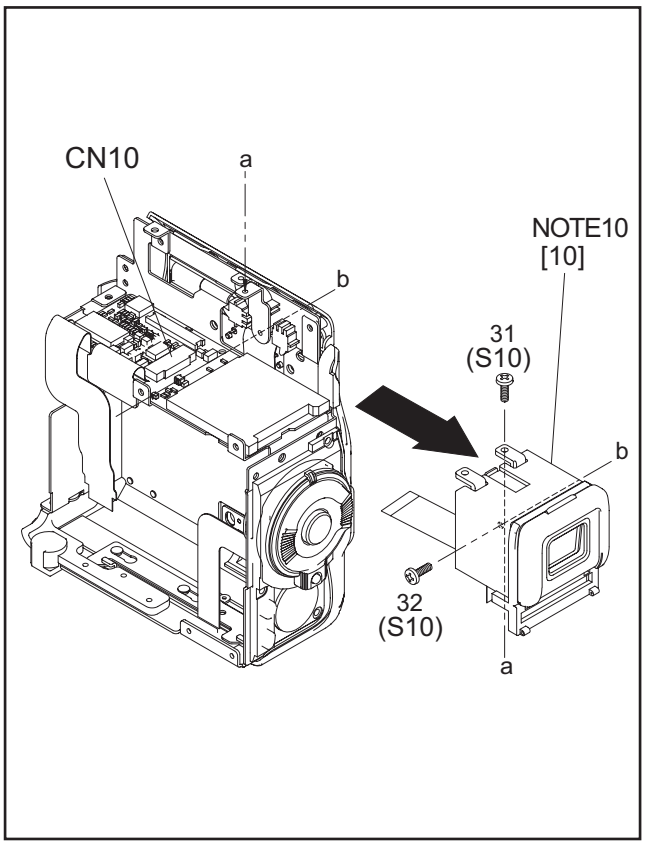

Fig.C7

CABINET PARTS AND ELECTRICAL PARTS

Symbol No. →	[1]				[2]	[3]					[4]		[5]								[6]/[7]			
Removing order of screw →	1	2	3	4	-	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Place to stick screw →	*				-	*	*		*						*	*		*	*		*	*	*	*
Reference drawing (Fig.No.) →	C1					C2					C3		C4								C5-1			
Screw tightening torque →	I																							

CABINET PARTS AND ELECTRICAL PARTS

Symbol No. →	[6]/[7]						[8]	[9]	[10]	
Removing order of screw →	24	25	26	27	28	29	-	30	31	32
Place to stick screw →	*	*					-	*	*	*
Reference drawing (Fig.No.) →	C5-2						C6		C7	
Screw tightening torque →	I		II				I			

NOTE:

1) * : Don't reuse the screw, because screw lock bond was applied to them.
2) Pay careful attention to tightening torque for each screw.

I : 0.088N･m (0.9kgf･cm) II : 0.068N･m (0.7kgf･cm)

SECTION 2
DISASSEMBLY (GR-DV Series)

2.1 BEFORE ASSEMBLY AND DISASSEMBLY

2.1.1 Precautions

- Be sure to disconnect the power supply unit prior to mounting and soldering of parts.
- Prior to removing a component part that needs to disconnect its connector(s) and its screw(s), first disconnect the wire(s) from the connector(s), and then remove the screw(s).
- When connecting/disconnecting wires, pay enough attention not to damage the connectors.
- When inserting the flat wire to the connector, pay attention to the direction of the flat wire.
- Be careful in removing the parts to which some spacer or shield is attached for reinforcement or insulation.
- When replacing chip parts (especially IC parts), first remove the solder completely to prevent peeling of the pattern.
- Tighten screws properly during the procedures. Unless specified otherwise, tighten screws at a torque of 0.078N·m (0.8kgf·cm). However, 0.078N·m (0.8kgf·cm) is a value at the time of production. At the time of service, perform the procedure at a torque 10% less than 0.078N·m (0.8kgf·cm). (See "SERVICE NOTE" as for tightening torque.)

2.1.2 Destination of connectors

Two kinds of double-arrows in connection tables respectively show kinds of connector/wires.

⇔ : Flat wire ↔ : Wire ⬌ : Board to board (B-B)
: The connector of the side to remove

CONN. No.	CONNECTOR					PIN No.
CN2a	MAIN	CN101	⇔	MONI/BW	CN761	40
CN2b	MAIN	CN103	↔	MIC	CN762	2

2.1.3 Disconnection of connectors (Wires)

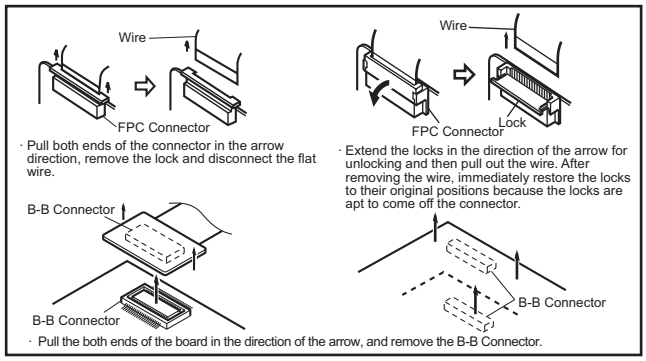
Wire
FPC Connector
· Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.
Wire
FPC Connector
Lock
· Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.
B-B Connector
B-B Connector
B-B Connector
· Pull the both ends of the board in the direction of the arrow, and remove the B-B Connector.

Fig.3-1-1

2.1.4 Tools required for disassembly and assembly

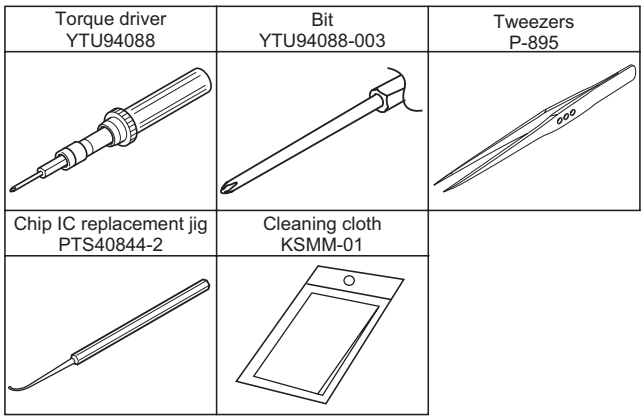

Fig.3-1-2

- **Torque driver**
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- **Bit**
  This bit is slightly longer than those set in conventional torque drivers.
- **Tweezers**
  To be used for removing and installing parts and wires.
- **Chip IC replacement jig**
  To be used for replacement of IC.
- **Cleaning cloth**
  Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

2.2 ASSEMBLY AND DISASSEMBLY OF MAIN PARTS

2.2.1 Assembly and disassembly

When reassembling, perform the step(s) in reverse order.

STEP No.	PART	Fig. No.	POINT	NOTE
[1]	TOP COVER ASSEMBLY	Fig.C1	S1,2(L1)	-
[2]	UPPER ASSEMBLY (Inc. VF ASSEMBLY, SPEAKER/MONITOR)	Fig.C2-1	S2a,2(S2b),3(S2c) 2(S2d),S2e,S2c L2,CN2a,b	-
[8]	VF ASSEMBLY	Fig.C2-2	2(S8),L8,CN8a	NOTE 8a NOTE 8b
(∗1)	(∗2)	(∗3)	(∗4)	(∗5)

(∗1) Order of steps in Procedure
When reassembling, preform the step(s) in the reverseorder. These numbers are also used as the identification (location) No. of parts Figures.

(∗2) Part to be removed or installed.

(∗3) Fig. No. showing Procedure or Part Location.
C = CABINET

(∗4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.
S = Screw
L = Lock, Release, Hook
SD = Solder
CN = Connector

[Example]

- 4 (S1a) = Remove four S1a screws.
- 3 (L1a) = Disengage three L1a hooks.
- 2 (SD1a) = Unsolder two SD1a points.
- CN1a = Remove a CN1a connector.

(∗5) Adjustment information for installation.

2.2.2 ASSEMBLY/DISASSEMBLY OF CABINET PARTS AND ELECTRICAL PARTS

●Disassembly procedure

Step No.	Parts Name	Fig.No.	Point	Note
[1]	COVER(SHOE) ASSY	Fig.C1	(S1a),(S1b)	-
/[2]	UPPER ASSY		4(S2a),(S2b),(S2c),2(S2d),2(S2e),CN2	NOTE2
[3]	SHOE ASSY	Fig.C2	CN3,S3,2(L3)	-
[4]	FRONT ASSY	Fig.C3	CN4a,CN4b,(S4a),(S4b),(S4c),COVER(JACK)	NOTE4a,b,c
[5]	REAR ASSY	Fig.C4	CN5,3(S5),COVER(DC)	-
[6]	OP BLOCK ASSY	Fig.C5	CN6a,CN6b,(S6a),(S6b),L6	-
[7]	BASE	Fig.C6	2(S7)	-
[8]	LOWER CASE ASSY	Fig.C7-1	CN8a,CN8b,(S8a),3(S8b)	-
[9]	MAIN BOARD ASSY	/Fig.C7-2	(S9a),(S9b),L9,CN9a,CN9b	-
[10]	PRE/MDA BOARD ASSY		2(S10a),SHIELD COVER(PR),L10a CN10a,b,c,d,e,f,(S10b),L10b	-
[11]	MECHANISM ASSY		S(S11),BRACKET(MECHA)	-
[12]	VF ASSY	Fig.C8	CN12,(S12a),(S12b),L12	-
[13]	MONITOR BOARD ASSY	Fig.C9	CN13a,CN13b,(S13a),6(S13b),KNOB(SLIDE)	NOTE13a,b,c
[14]	COVER(UPPER)ASSY	Fig.C10-1	2(S14)	NOTE14
[15]	MONITOR ASSY	Fig.C10-2	2(S15a),2(S15b)	NOTE15

NOTE2:
Open the MONITOR ASSY.

NOTE4a:
The screw no.16 is under the COVER (JACK).

NOTE4b:
CN4b is contained in only models with strobe function.

NOTE4c:
After removing the FRONT ASSEMBLY, the OP BLOCK ASSEMBLY is not covered with anything. Be careful not to damage the OP BLOCK ASSEMBLY.

NOTE13a:
Take care not to lose the KNOB because the KNOB is removed together with the MONITOR BOARD ASSY.

NOTE13b:
In attachment procedure, take care not to insert a wire.

NOTE13c:
Prior to removing the MONITOR BOARD ASSY, remove the memory card.

NOTE14:
Prior to removing the COVER(UPPER)ASSY, close the MONITOR.

NOTE15:
When removing the MONITOR ASSY, take care not to cut or damage the FPC.

●Destination of connectors

CONN. No.	CONNECTOR					PIN. No.
CN2	MAIN	CN106	⇔	MONITOR	CN701	57
CN3	MAIN	CN103	⇔	SHOE		16
CN4a	MAIN	CN111	⬌	FRONT	CN501	30
CN4b	MAIN	CN109	⇔	STROBE	CN6501	16
CN5	MAIN	CN110	⇔	REG	CN601	80
CN6a	MAIN	CN102	⇔	CCD	-	20
CN6b	MAIN	CN104	⇔	OP BLOCK ASSY	-	24
CN8a	MAIN	CN112	⇔	JACK	CN201	12
CN8b	MAIN	CN114	⇔	ZOOM DIAL OPE	-	16
CN9a	MAIN	CN108	⇔	PRE/MDA	CN408	40
CN9b	MAIN	CN107	⇔	PRE/MDA	CN401	40
CN10a	PRE/MDA	CN402	⇔	HEAD	-	8
CN10b	PRE/MDA	CN404	⇔	DRUM MOTER	-	11
CN10c	PRE/MDA	CN406	⇔	SENSOR	-	16
CN10d	PRE/MDA	CN407	⇔	ROTARY ENCODER SW	-	6
CN10e	PRE/MDA	CN403	⇔	LOADING MOTOR	-	6
CN10f	PRE/MDA	CN405	⇔	CAPSTAN MOTOR	-	18
CN12	MONITOR	CN703	⇔	VF BL	CN801	20/18
CN13a	MONITOR	CN702	⇔	BL	CN601/CN605	38/21.21
CN13b	MONITOR	CN704	↔	SPEAKER	-	2

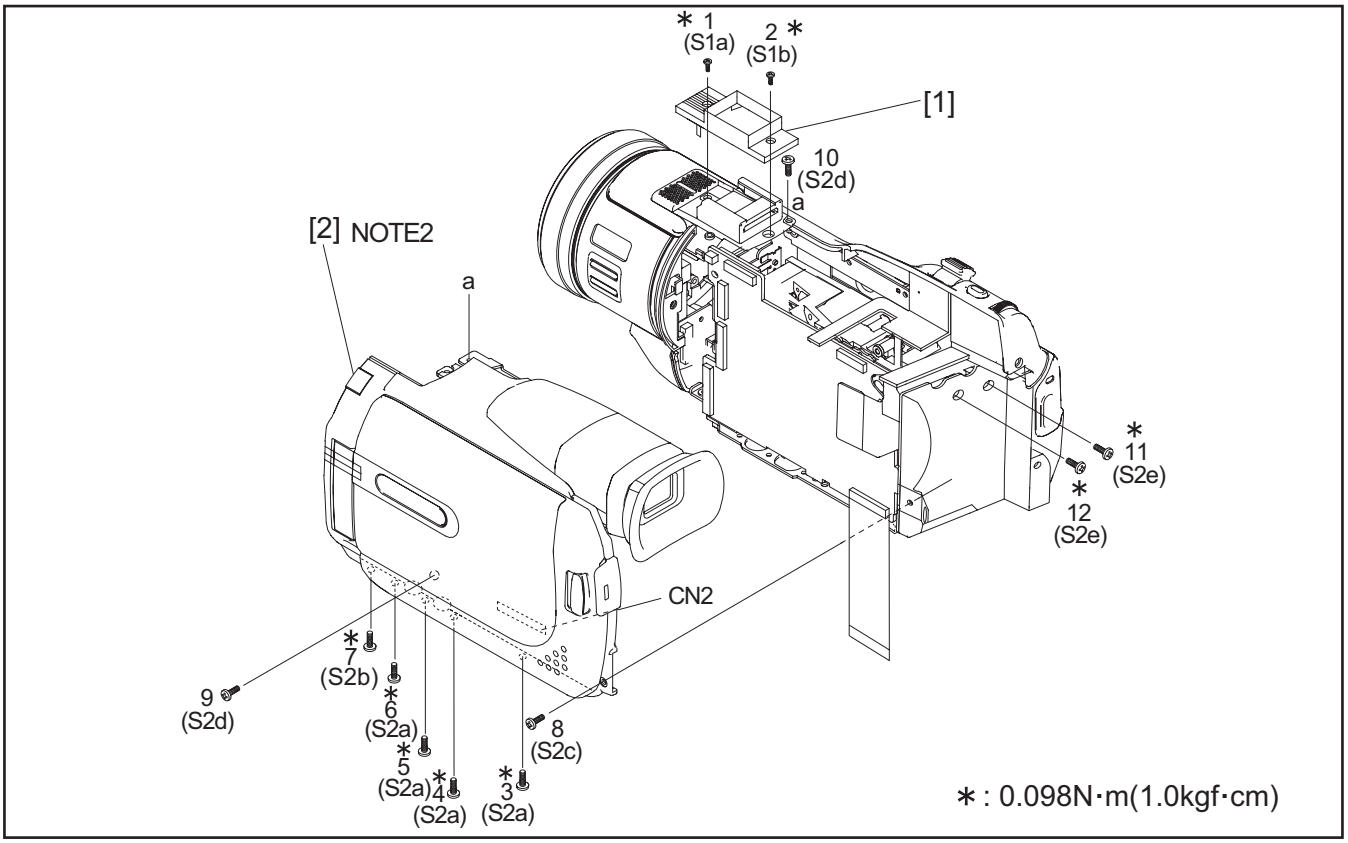
＊1
(S1a)
2＊
(S1b)
[1]
10
(S2d)
a
[2] NOTE2
a
＊
11
(S2e)
＊
12
(S2e)
CN2
＊
7
(S2b)
9
(S2d)
＊
6
(S2a)
＊
5
(S2a)
＊4
(S2a)
＊
3
(S2a)
8
(S2c)
＊: 0.098N·m(1.0kgf·cm)

Fig.C1

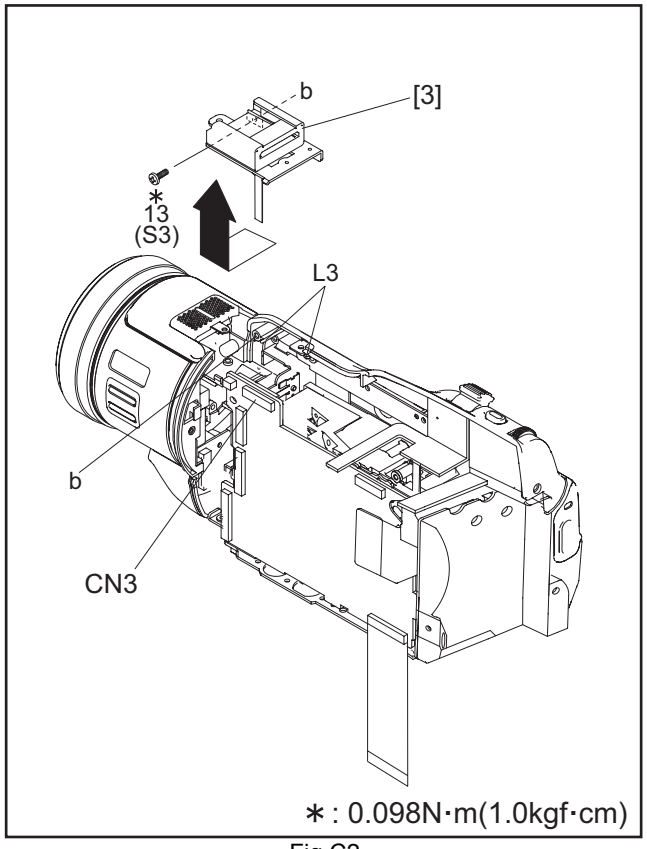
b
[3]
＊
13
(S3)
L3
b
CN3
＊: 0.098N·m(1.0kgf·cm)

Fig.C2

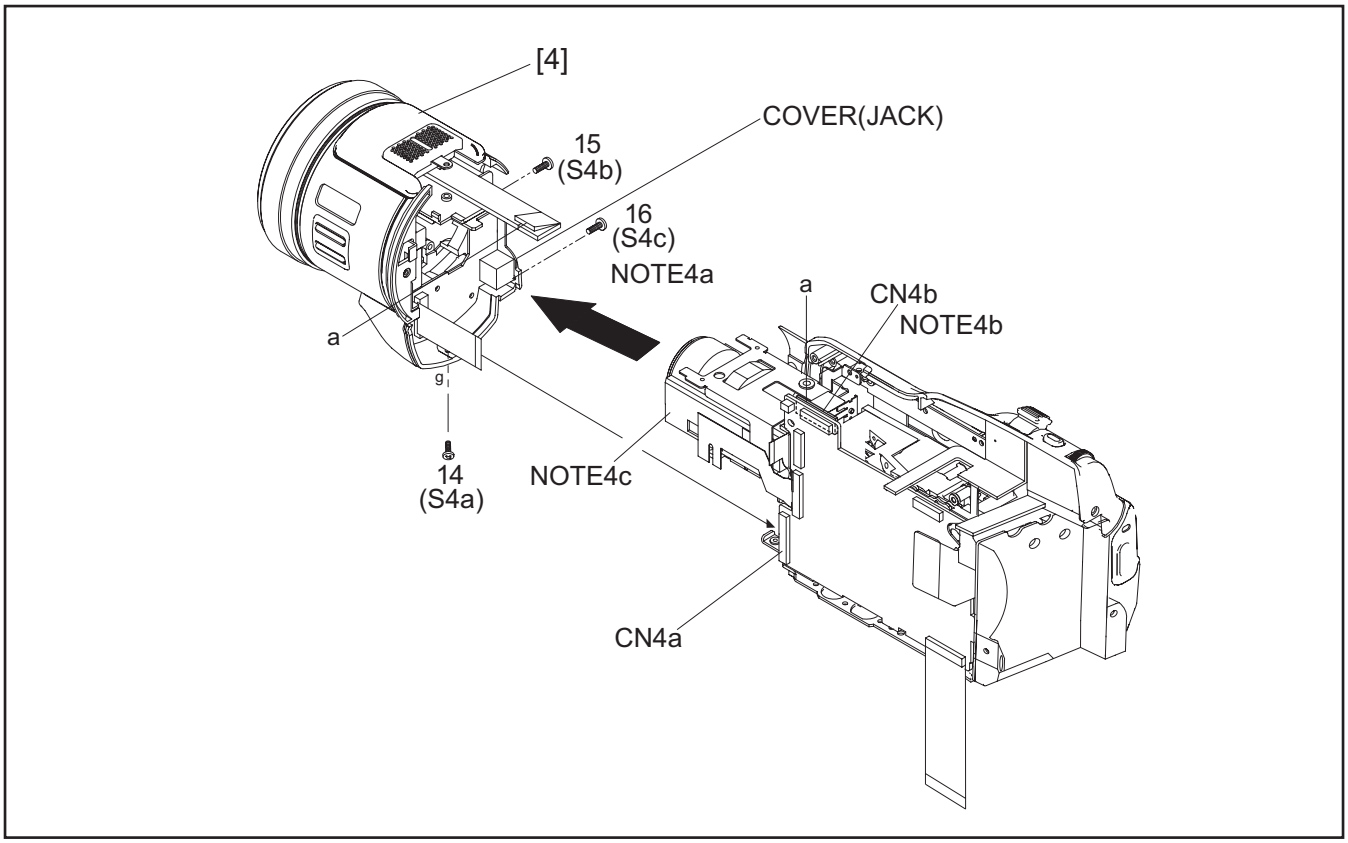
[4]
COVER(JACK)
15
(S4b)
16
(S4c)
NOTE4a
a
CN4b
NOTE4b
a
g
14
(S4a)
NOTE4c
CN4a

Fig.C3

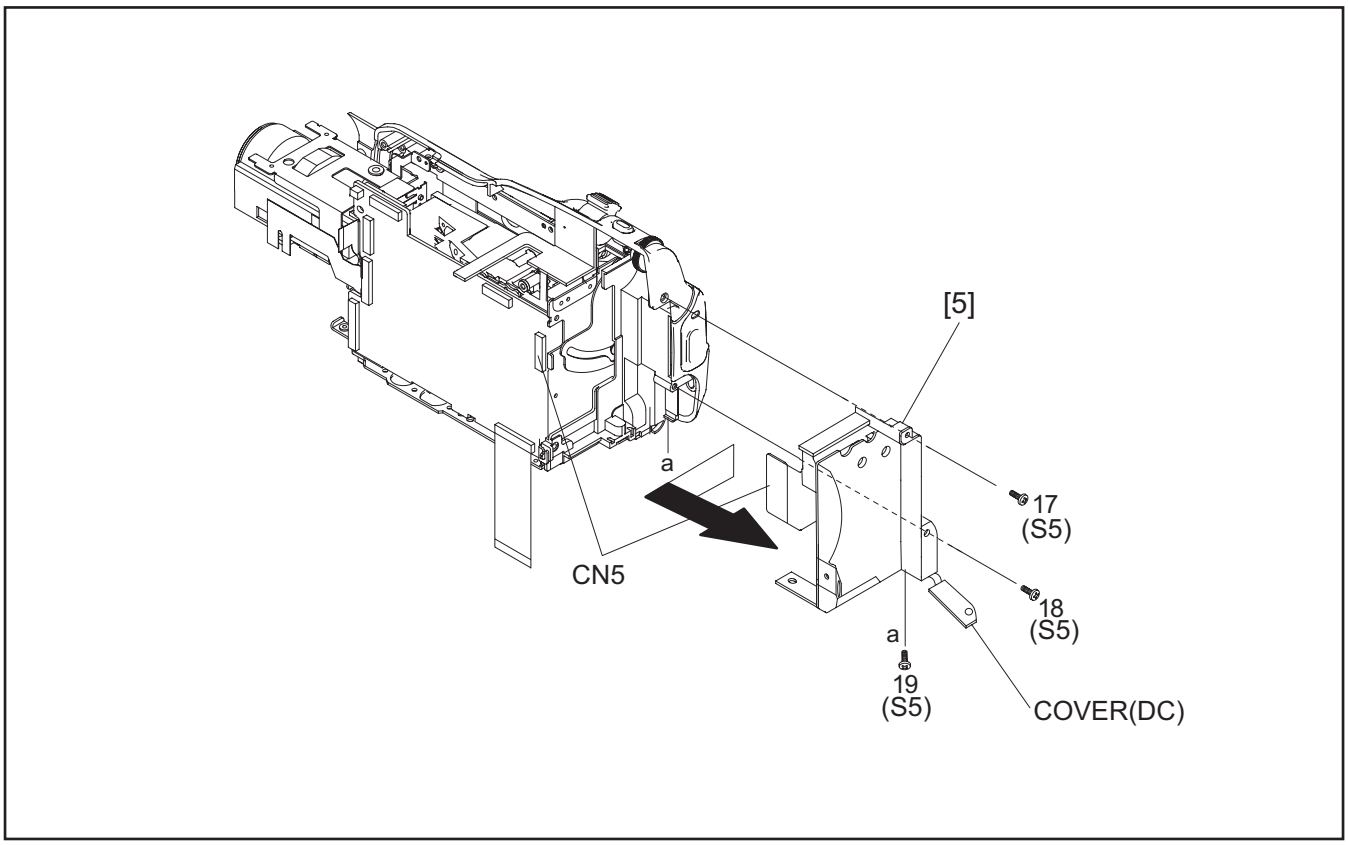
[5]
a
17
(S5)
CN5
18
(S5)
a
19
(S5)
COVER(DC)

Fig.C4

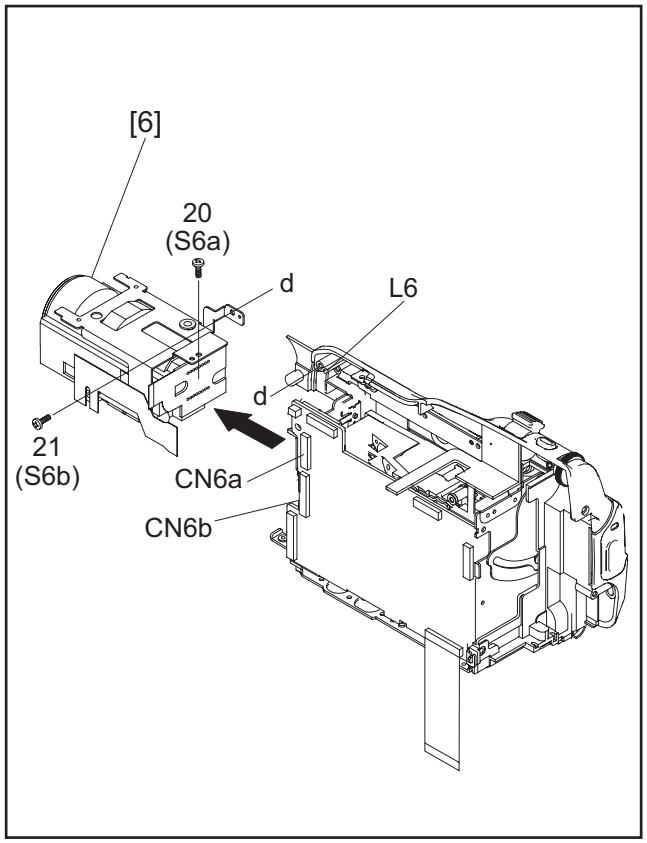

Fig.C5

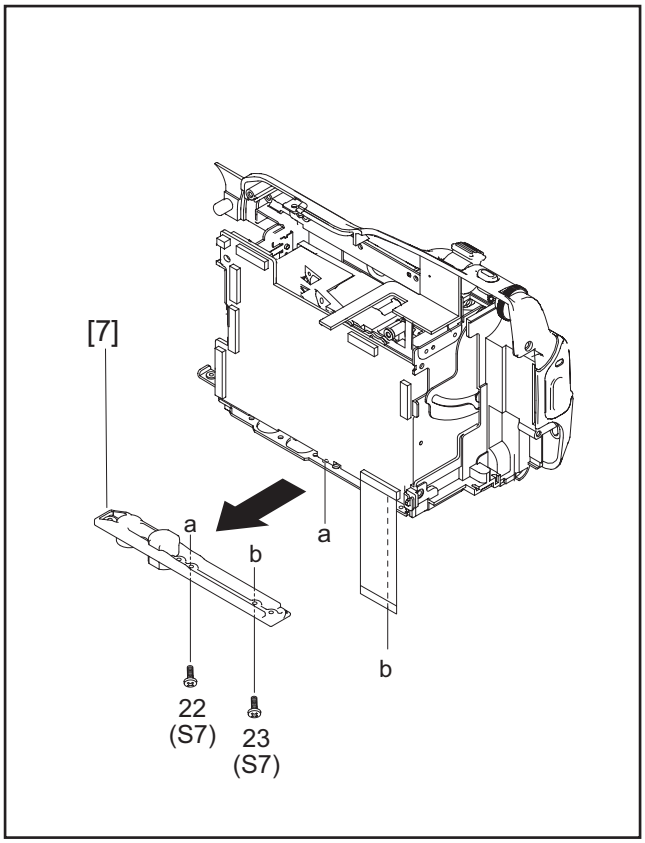

Fig.C6

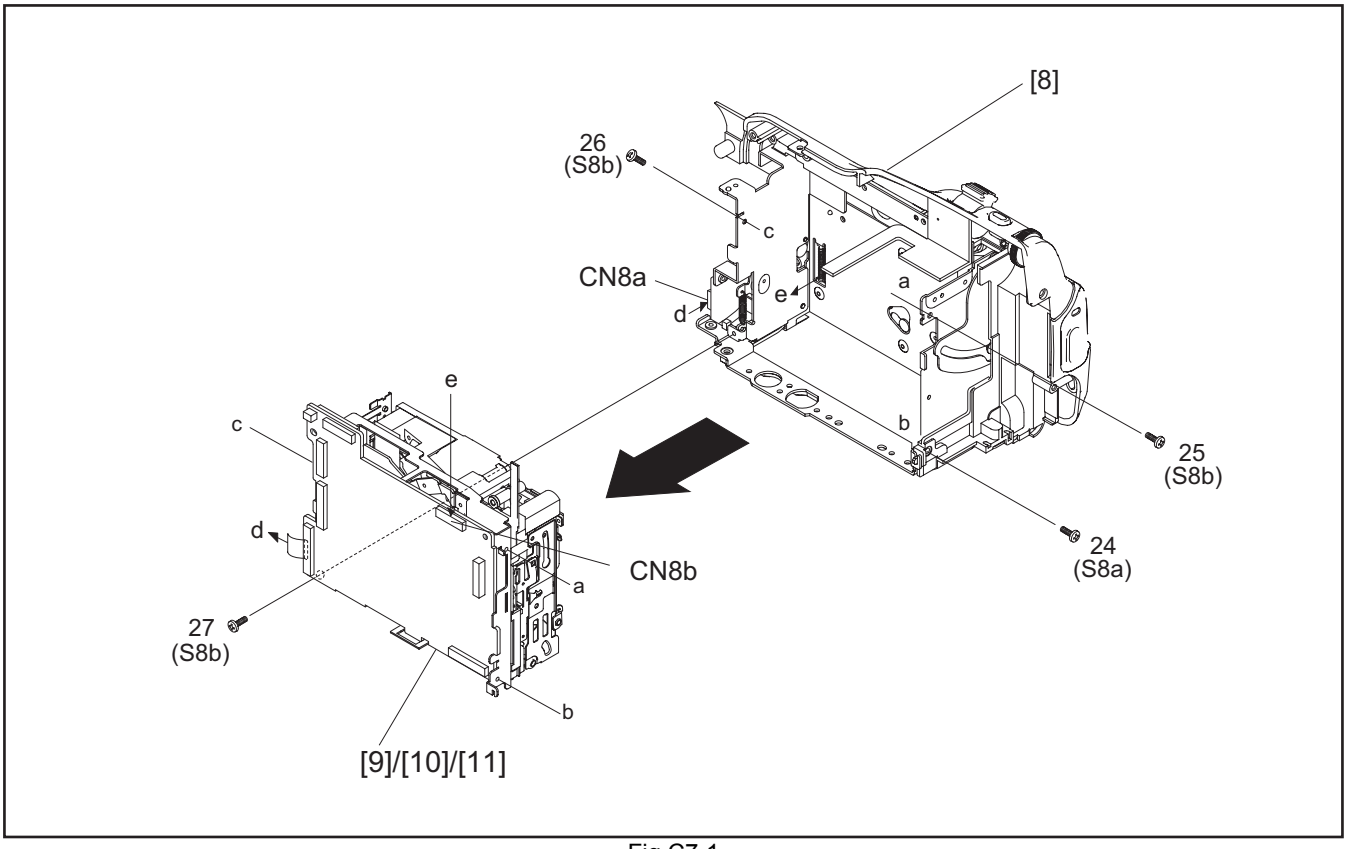

Fig.C7-1

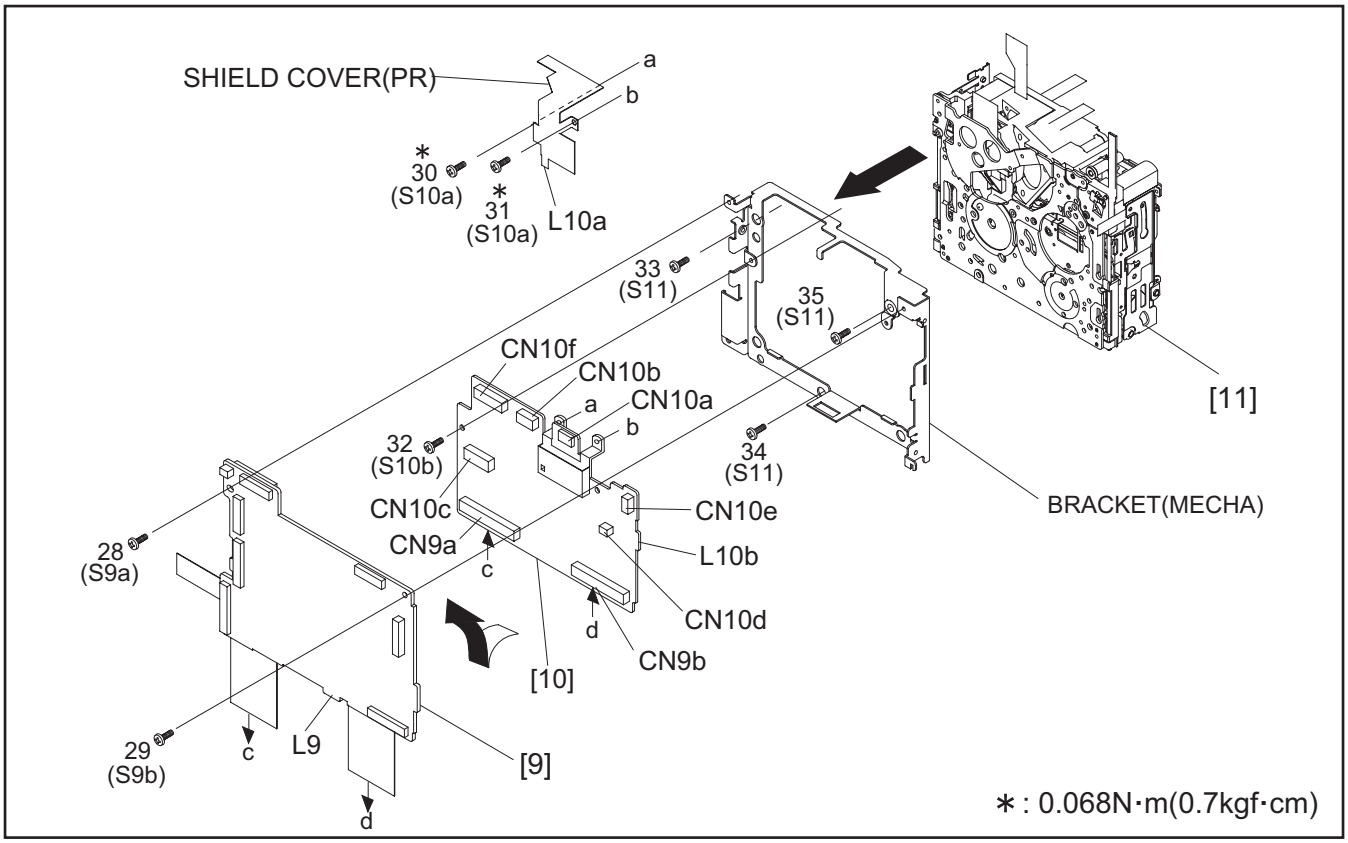

Fig.C7-2

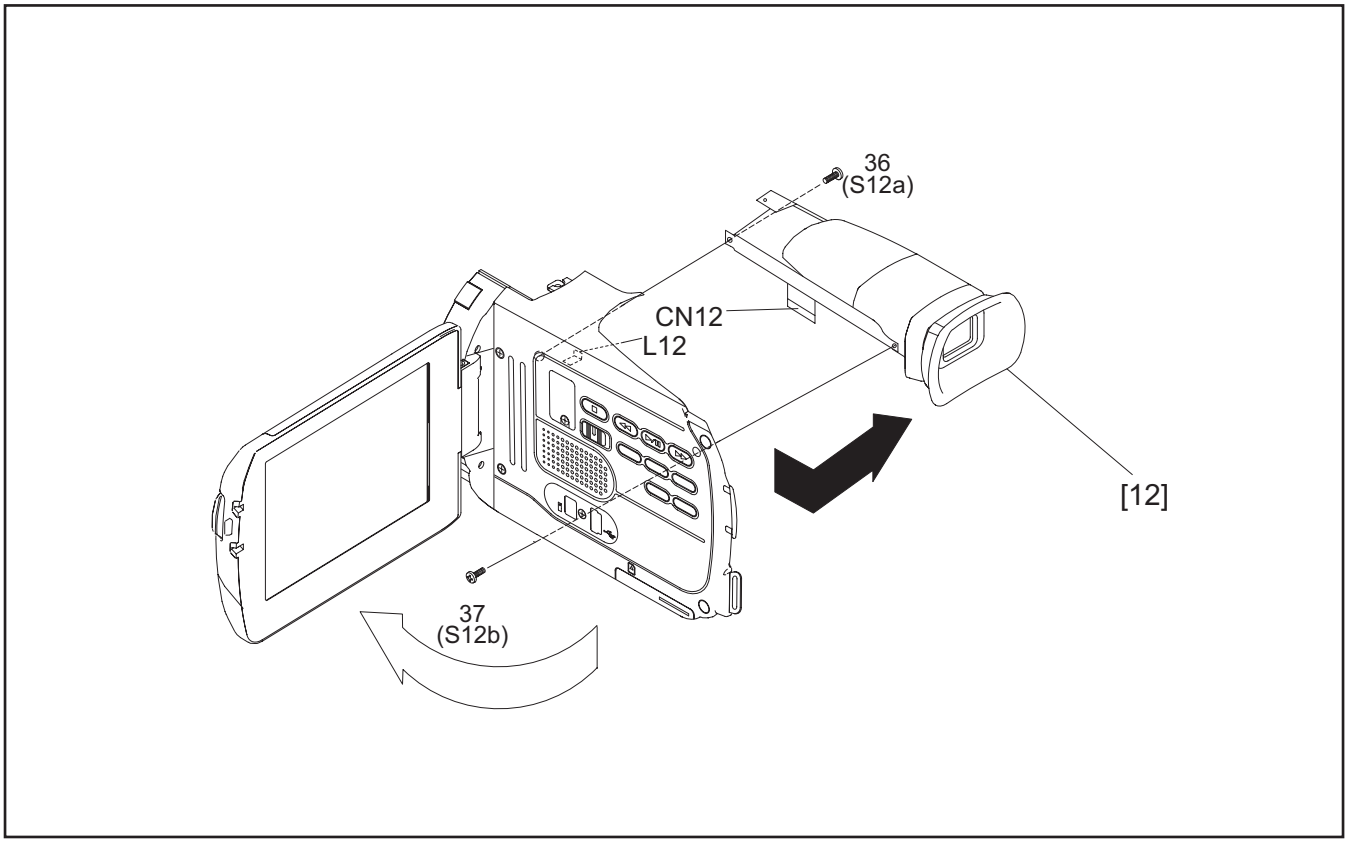

Fig.C8

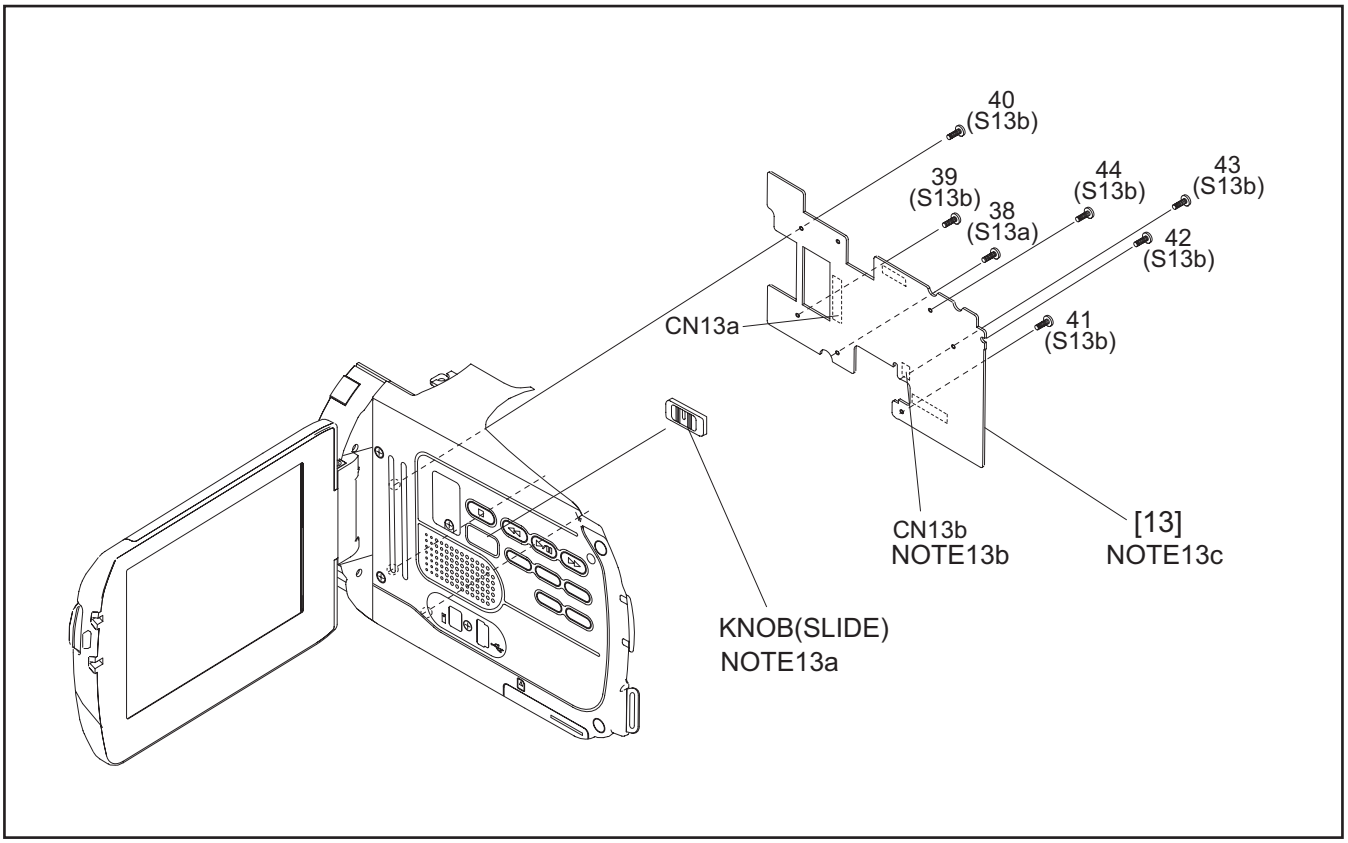

Fig.C9

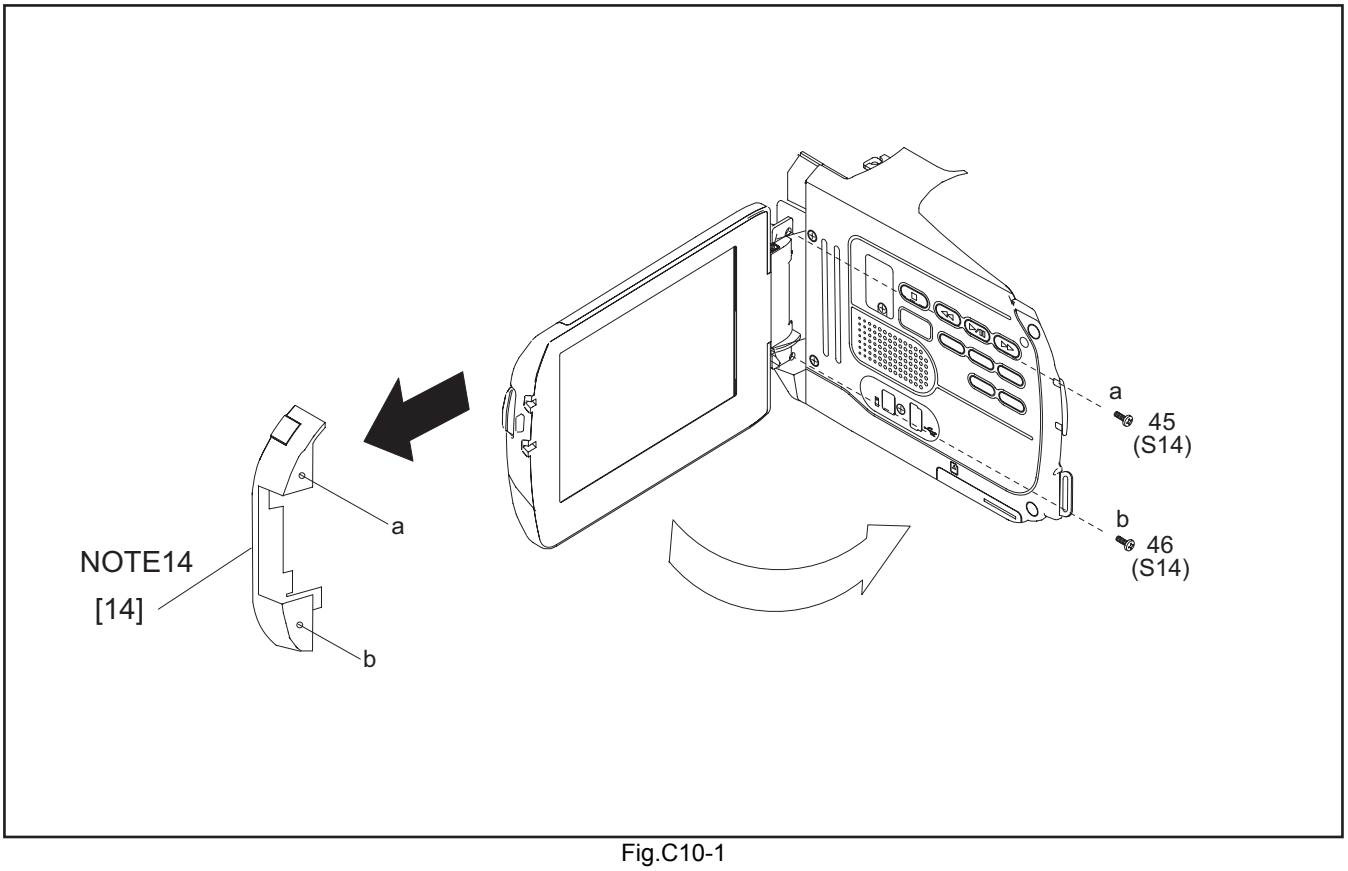

Fig.C10-1

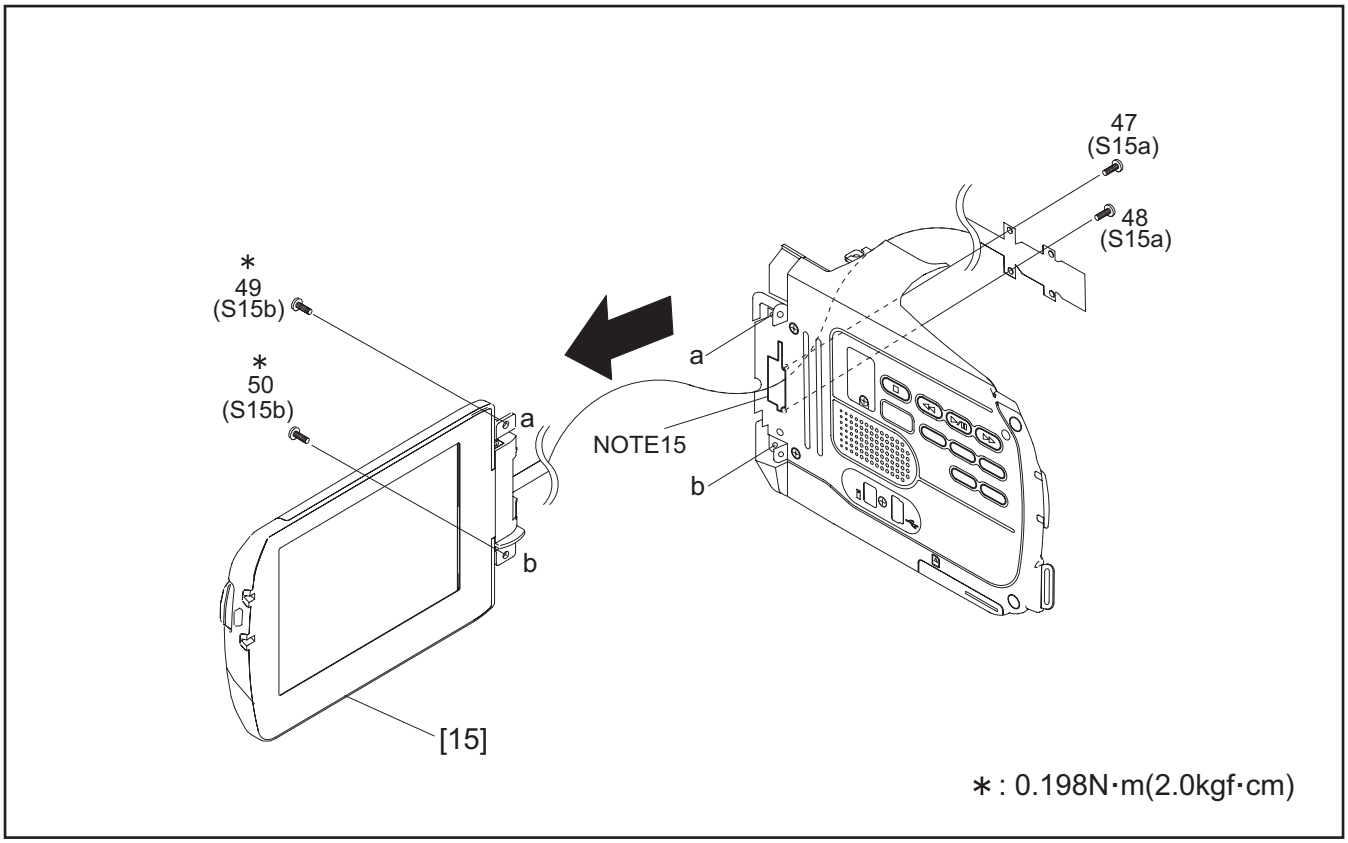

Fig.C10-2

CABINET PARTS AND ELECTRICAL PARTS

Symbol No. →	[1]		[2]										[3]	[4]			[5]			[6]		[7]		[8]			
Removing order of screw →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Place to stick screw →		*						*	*	*				*								*	*		*	*	*
Reference drawing (Fig.No.) →	C1												C2	C3			C4			C5		C6		C7-1			
Screw tightening torque →	Ⅲ							Ⅰ			Ⅲ			Ⅰ													

CABINET PARTS AND ELECTRICAL PARTS

Symbol No. →	[9]		[10]		[11]			[12]		[13]							[14]		[15]			
Removing order of screw →	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Place to stick screw →					*				*													*	*
Reference drawing (Fig.No.) →	C7-2								C8		C9							C10-1		C10-2			
Screw tightening torque →	Ⅰ		Ⅱ		Ⅰ																	Ⅳ	

NOTE:

1) * : Don't reuse the screw, because screw lock bond was applied to them.
2) Pay careful attention to tightening torque for each screw.

Ⅰ : 0.078N･m (0.8kgf･cm)　Ⅱ : 0.068N･m (0.7kgf･cm)　Ⅲ : 0.098N･m (1.0kgf･cm)　Ⅳ : 0.198N･m (2.0kgf･cm)

JVC

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(No.YF009)

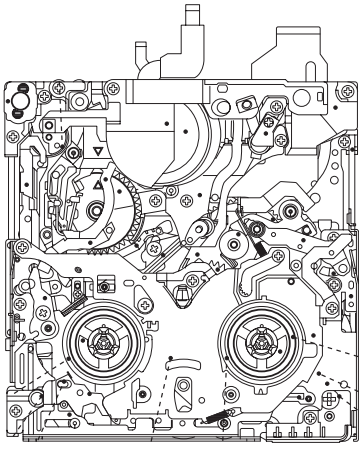
Printed in Japan
WPC

JVC

SERVICE MANUAL

MECHANISM ASSEMBLY

DVC MECHANISM
VHS-C MECHANISM
VHS MECHANISM



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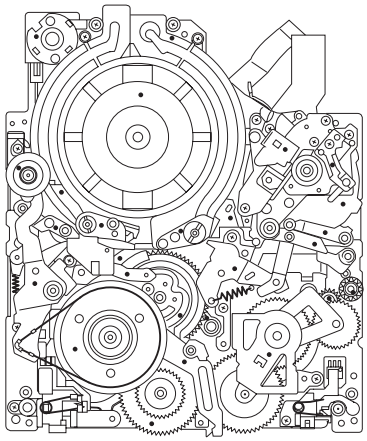

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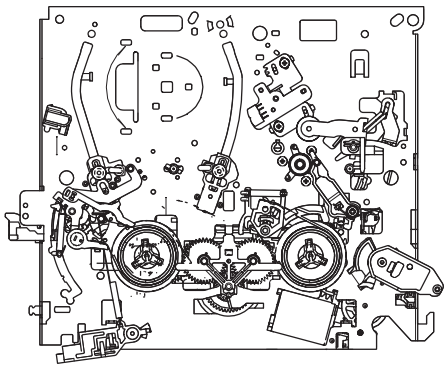

<VHS MECHANISM>

TABLE OF CONTENTS

1 JIGS AND TOOLS 1-1
2 SPECIFIC SERVICE INSTRUCTIONS 2-1
3 PARTS LIST 3-1

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No.86700
2003/04

SECTION 1
JIGS AND TOOLS

1.1 TOOLS REQUIRED FOR ADJUSTMENTS

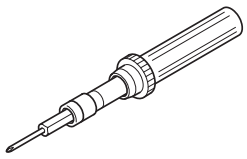
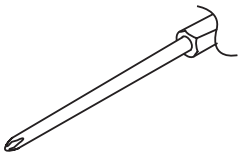
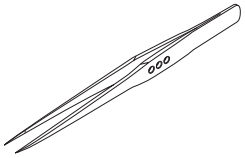
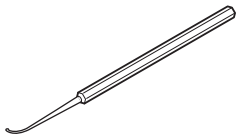
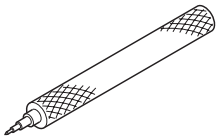
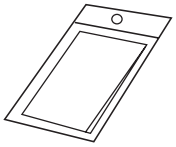
1. Torque driver YTU94088	2. Bit YTU94088-003
	
3. Tweezers P-895	4. Chip IC replacement jig PTS40844-2
	
5. Slit washer installation jig YTU94121A	6. Cleaning cloth KSMM-01
	

Fig.1-1-1

1. Torque driver
Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
Torque setting value of torque driver is limited. At the values over the maximum torque setting value, fasten a screw manually not to damage the screw thread.

2. Bit
This bit is slightly longer than those set in conventional torque drivers.

3. Tweezers
To be used for removing and installing parts and wires.

4. Chip IC replacement jig
To be used for replacement of part.

5. Slit washer installation jig
To be used to install slit washers.

6. Cleaning cloth
Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 DVC MECHANISM

2.1.1 Precautions

(1) When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.055 N•m (0.56 kgf•cm).
(2) Be sure to disconnect the set from the power supply before fastening and soldering parts.
(3) When disconnecting/connecting wires, be careful not to get them and their connectors damaged.
(4) When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

2.1.2 Notes on procedure for disassembly/assembly

The disassembling procedure table (Fig. 2-1-10 on page 2-4,a part of the table is shown below for reference)shows the procedure to disassemble/reassemble mechanism parts.
Carefully read the following explanation before starting actual disassembling/reassembling work. The item numbers(circled numbers)in the following explanation correspond to those appearing under respective columns of the table.

Example

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
[1]	CASSETTE HOUSING ASSY	T	Fig.2-4-3	3(S1),(L1a)-(L1e)	**NOTE 1 a,b,c,d**	ADJUSTMENT
[2]	UPPER BASE ASSY	T	Fig.2-4-4	(S2),(L2a),(L2b)	**NOTE 2**	
[3]	DRUM ASSY	T		(S3a),2(S3b)	**NOTE 3 a,b**	
[4]	REEL DISK ASSY(SUP)	T	Fig.2-4-5	(W4)	**NOTE 4 a**	
[5]	REEL DISK ASSY(TU)	T		(W5a),(W5b),(W5c)	**NOTE 5 a,b**	
[6]	REEL COVER ASSY	T		(W6),(S6a),2(S6b)	**NOTE 6**	ADJUSTMENT

*1 *2 *3 *4 *5 *6 *7

*1 Numbers appearing in this column indicate the order to remove parts. When reassembling, follow these numbers in the reverse order. Circled numbers in this column correspond to those appearing in drawings of this section.
*2 This column shows part names corresponding to numbers in the left column.
*3 The symbol (T or B)appearing in this column shows the side which the objective part is mounted on.
T =the upper side, B =the lower side
*4 Symbols appearing in this column indicate drawing numbers.
*5 This column indicates parts and points such as screws, washers,springs,and others to be removed/fitted for disassembling/reassembling the mechanism. Besides such the parts, this column occasionally indicates working points.

P = Spring
W = Washer
S = Screw
* = Lock (L),soldering (SD),shield,connector (CN),etc.

Example

- Remove (W1)=Washer W1.
- Remove the solder at (SD1)=Point SD1.
- Disconnect A = Connector A.

*6 Numbers in this column represent the numbers of notes in the text.
(For parts that need phase adjustment after reassembling, refer to “MECHANISM ADJUSTMENTS”.)
*7 This column indicates required after-disassembling/-reassembling work such as phase adjustment or mechanism adjustment.

2.1.3 DISASSEMBLY AND ASSEMBLY OF MECHANISM ASSEMBLY

2.1.3.1 General statement

The mechanism should generally be disassembled/assembled in the C.IN mode (ASSEMBLY mode). (Refer to Fig. 2-1-1,2-1-2.) However, when the mechanism is removed from the main body, it is set in the STOP mode. Therefore, after the mechanism is removed from the main body, supply 3 V DC to the electrode on the top of the loading motor to enter the mechanism mode into the C IN mode compulsory.

<Mechanism assembly/Cassette housing assembly>

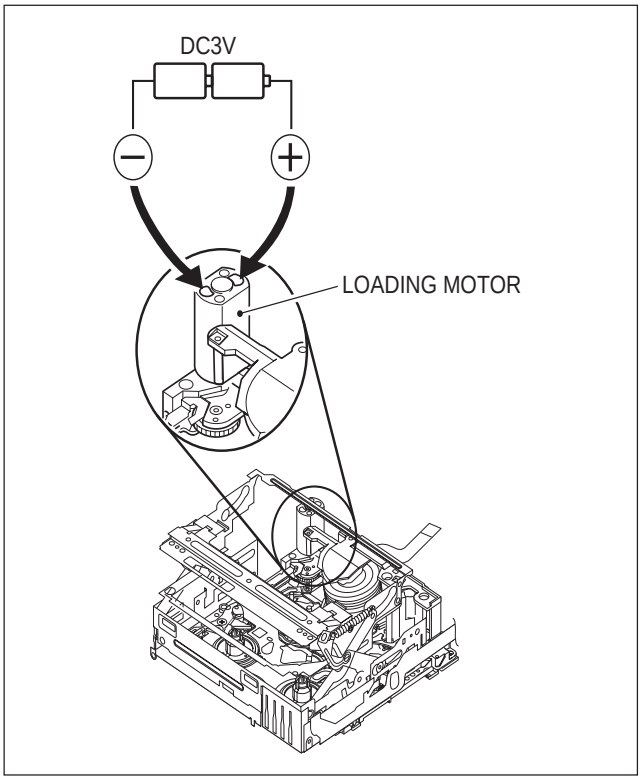


Fig.2-1-1

<Back side of the mechanism assembly>

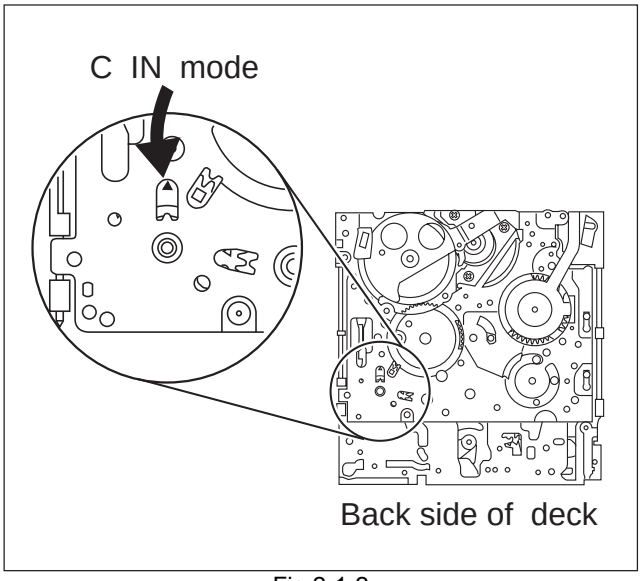


Fig.2-1-2

2.1.3.2 Explanation of mechanism mode

The mechanism mode of this model is classified into five modes as shown in Fig. 2-1-9. Each mechanism mode can be distinguished from others by the relative position of "△", "○", "⬭", "□" marks on the sub cam gear to the inner or outer protrusion on the main deck.

Refer to Fig. 2-1-3 to 2-1-8 below.

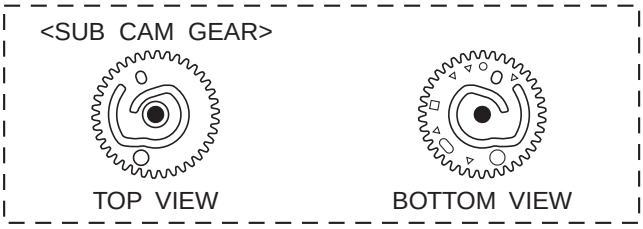


Fig.2-1-3

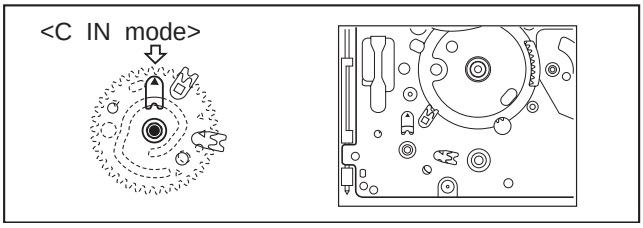


Fig.2-1-4

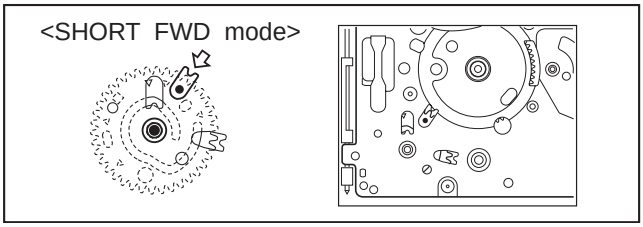


Fig.2-1-5

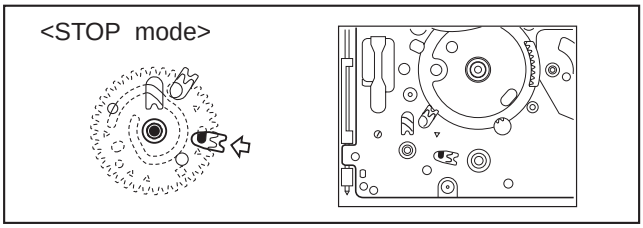


Fig.2-1-6

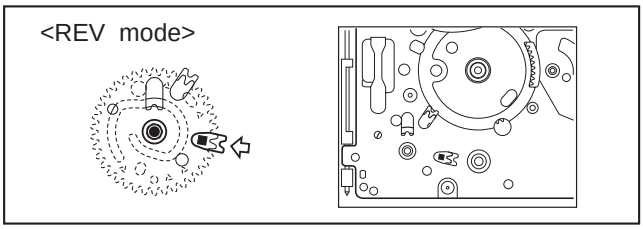


Fig.2-1-7

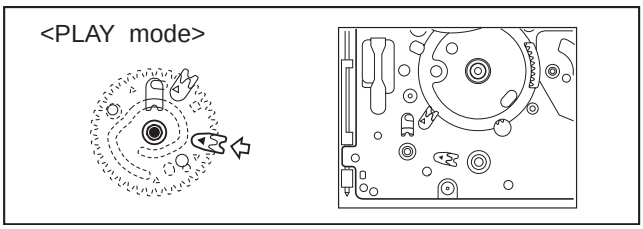


Fig.2-1-8

2.1.3.3 Mechanism timing chart

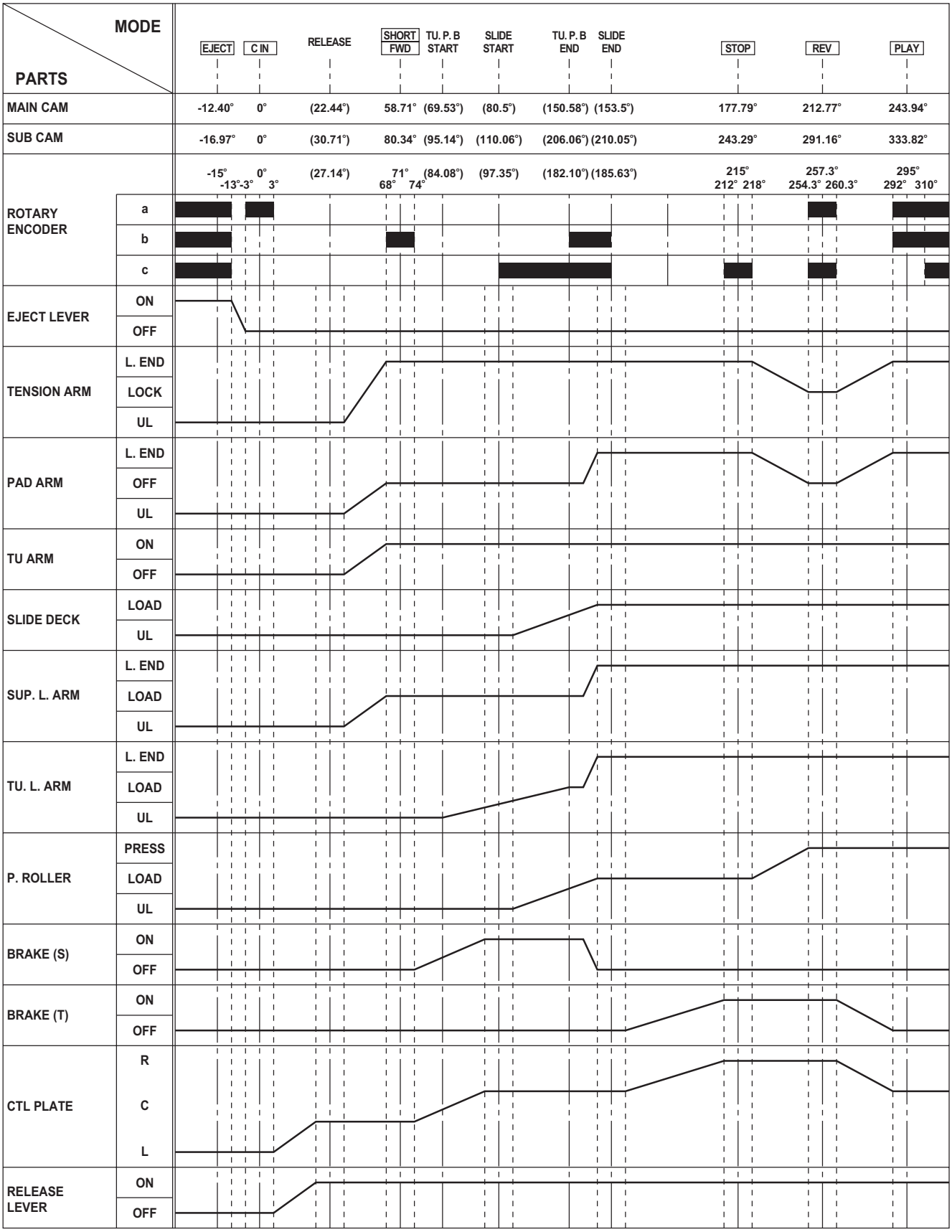


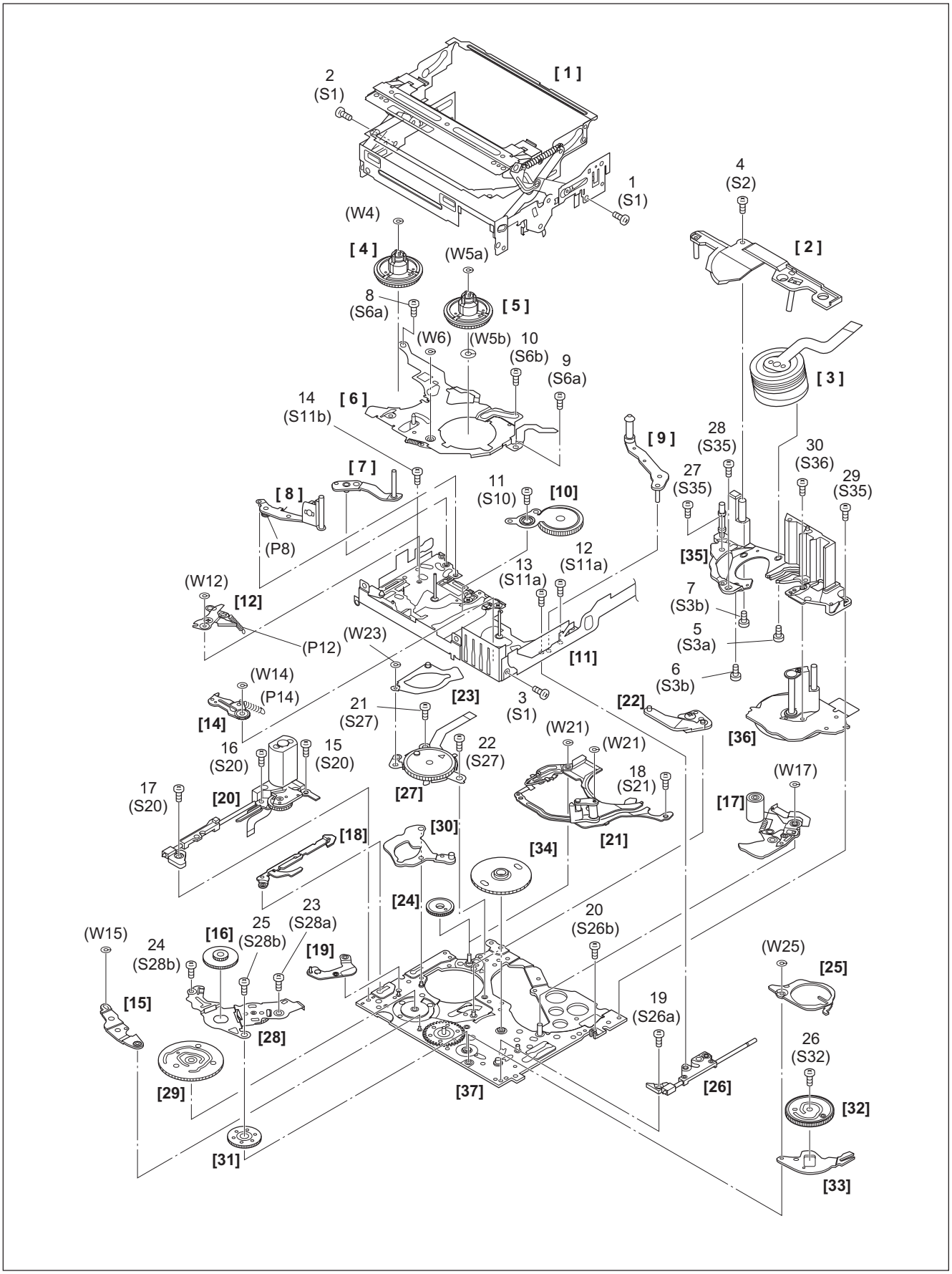
Fig.2-1-9

2.1.4 DISASSEMBLY PROCEDURE TABLE

MARK: # After assembly, perform adjustments.

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
[1]	CASSETTE HOUSING ASSY	T	Fig.2-1-14	3(S1),(L1a)-(L1e)	**NOTE 1 a,b,c,d**	ADJUSTMENT
[2]	UPPER BASE ASSY	T	Fig.2-1-15	(S2),(L2a),(L2b)	**NOTE 2**	
[3]	DRUM ASSY	T		(S3a),2(S3b)	**NOTE 3 a,b**	ADJUSTMENT
[4]	REEL DISK ASSY(SUP)	T	Fig.2-1-16	(W4)	**NOTE 4**	
[5]	REEL DISK ASSY(TU)	T		(W5a),(W5b)	**NOTE 5 a,b**	
[6]	REEL COVER ASSY	T		(W6),2(S6a),(S6b)	**NOTE 6**	
[7]	TENSION ARM ASSY	T	Fig.2-1-17	(L7)	**NOTE 7**	ADJUSTMENT / #
[8]	SLANT POLE ARM ASSY	T		(P8)	**NOTE 8**	ADJUSTMENT
[9]	TU ARM ASSY	T		(L9)	**NOTE 9**	ADJUSTMENT
[10]	SWING ARM ASSY	T		(S10)	**NOTE 10**	ADJUSTMENT
[11]	SLIDE DECK ASSY	T	Fig.2-1-18	2(S11a),(S11b),2(L11a), 2(L11b),(L11c)	**NOTE 11a,b**	ADJUSTMENT / #
[12]	PAD ARM ASSY	T	Fig.2-1-19	(P12),(L12),(W12)	**NOTE 12**	ADJUSTMENT / #
[13]	-	-		-	-	
[14]	TU BRAKE ASSY	T		(P14),(L14),(W14)	**NOTE 14**	ADJUSTMENT
[15]	TENSION CTL LEVER ASSY	T	Fig.2-1-20	(W15)	**NOTE 15**	ADJUSTMENT
[16]	CENTER GEAR	T		-	**NOTE 16**	
[17]	PINCH ROLLER ARM F. ASSY	T		(W17)	**NOTE 17**	ADJUSTMENT
[18]	TENSION CTL PLATE ASSY	T		-	**NOTE 18**	ADJUSTMENT
[19]	BRAKE CTL LEVER ASSY	T		-	**NOTE 19**	ADJUSTMENT
[20]	MOTOR BRACKET ASSY	T	Fig.2-1-21	3(S20),(L20a),2(L20b)	**NOTE 20**	ADJUSTMENT
[21]	GUIDE RAIL ASSY	T		2(W21),(S21),2(L21a),(L21b)	**NOTE 21**	ADJUSTMENT
[22]	SLIDE LEVER 2 ASSY	T		-	**NOTE 22**	ADJUSTMENT / #
[23]	LOADING PLATE ASSY	T		(W23)	**NOTE 23**	ADJUSTMENT
[24]	MODE GEAR	T		-	**NOTE 24**	
[25]	EJECT LEVER	T		(W25)	**NOTE 25**	ADJUSTMENT
[26]	BASE R ASSY	T	Fig.2-1-22	(S26a),(S26b),2(L26)	**NOTE 26**	ADJUSTMENT
[27]	ROTARY ENCODER	T		2(S27)	**NOTE 27**	PHASE ADJUSTMENT
[28]	GEAR COVER ASSY	T		(S28a),2(S28b)	-	
[29]	MAIN CAM ASSY	T		-	**NOTE 29**	PHASE ADJUSTMENT
[30]	SLIDE ARM ASSY	T	Fig.2-1-23	-	**NOTE 30**	ADJUSTMENT
[31]	CONNECT GEAR 2	T		-	**NOTE 31**	
[32]	SUB CAM ASSY	T		(S32)	**NOTE 32**	PHASE ADJUSTMENT
[33]	CONTROL ARM ASSY	T		-	**NOTE 33**	ADJUSTMENT
[34]	REEL GEAR 1	T		-	**NOTE 34**	
[35] / [36]	DRUM BASE ASSY/ CAPSTAN MOTOR	T	Fig.2-1-24	3(S35)	**NOTE 35a,b**	ADJUSTMENT
[36]	CAPSTAN MOTOR	T		(S36)	**NOTE 36**	ADJUSTMENT
[37]	MAIN DECK ASSY	T		-	-	

Fig.2-1-10


2
(S1)
[1]
1
(S1)
4
(S2)
(W4)
[4]
(W5a)
[2]
8
(S6a)
[5]
(W6)
(W5b)
10
(S6b)
9
(S6a)
[3]
14
(S11b)
[6]
[9]
28
(S35)
30
(S36)
[7]
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29
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[8]
11
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[10]
(P8)
12
(S11a)
[35]
(W12)
13
(S11a)
7
(S3b)
[12]
5
(S3a)
(P12)
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6
(S3b)
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3
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(S26b)
(W15)
23
(S28a)
25
(S28b)
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(W25)
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(S26a)
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[31]
[33]

Fig.2-1-11

< TOP VIEW >

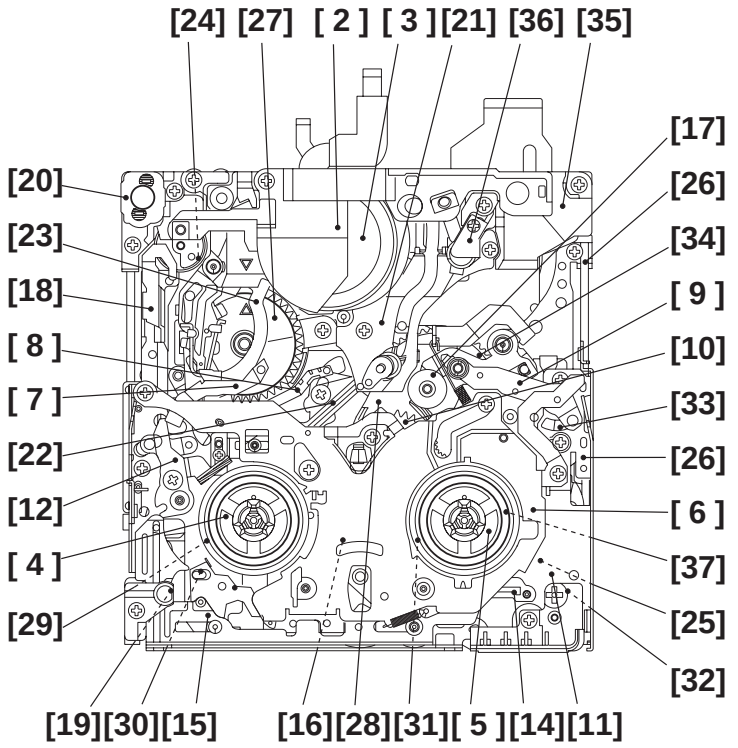


Fig.2-1-12

< BOTTOM VIEW >

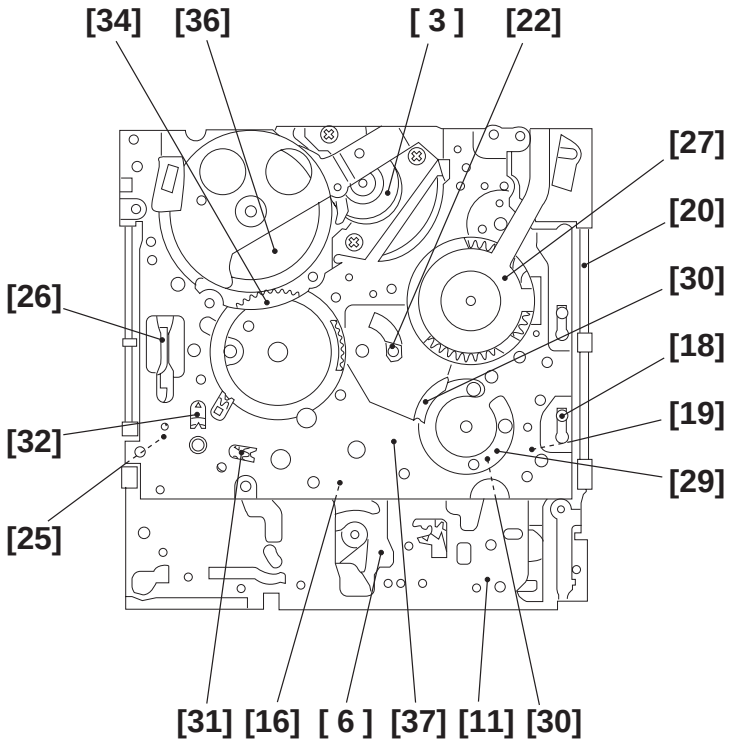


Fig.2-1-13

2.1.5 DISASSEMBLY/ASSEMBLY

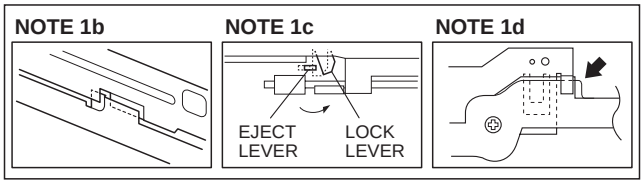
2.1.5.1 [1] CASSETTE HOUSING ASSY

NOTE 1a:
Be careful not to damage any of the parts during work.

NOTE 1b:
Special care is required in mounting.

NOTE 1c:
When mounting, the CASSETTE HOUSING ASSY should be attached in the Eject status. Pay heed to the positions of the LOCK LEVER and EJECT LEVER during mounting.

NOTE 1d:
When mounting, be sure to locate the FPC in the gap.



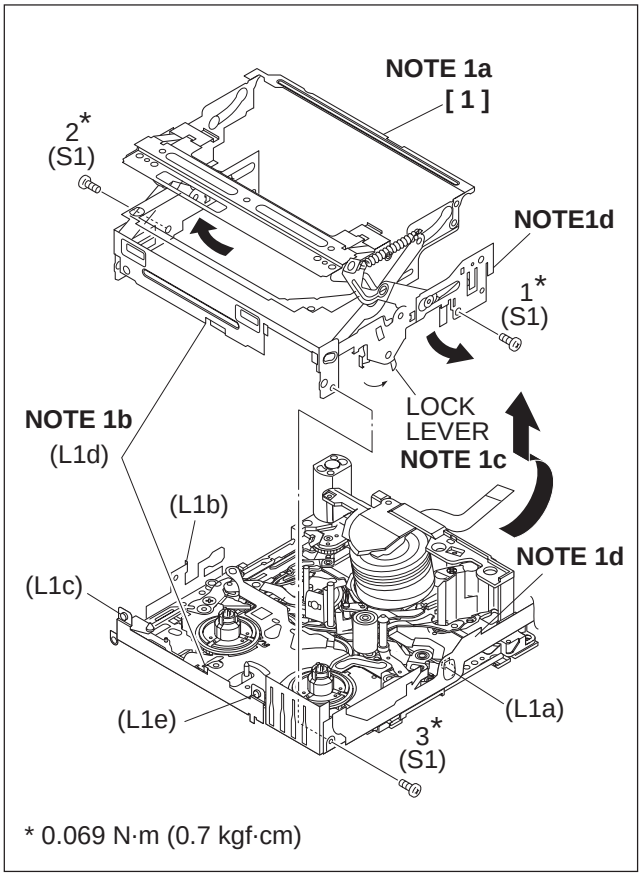


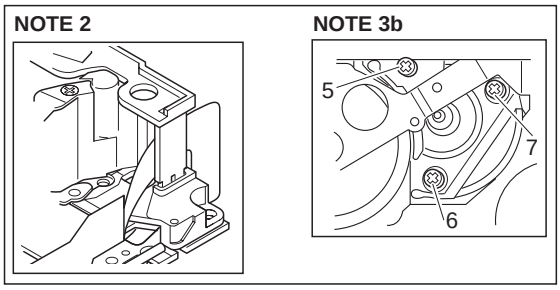
Fig.2-1-14

2.1.5.2 [2] UPPER BASE ASSY
[3] DRUM ASSY

NOTE 2:
When mounting, be sure to insert the FPC reinforcing sheet.

NOTE 3a:
Be mindful of scratches or damage during work.

NOTE 3b:
Be careful not to attach screws incorrectly.



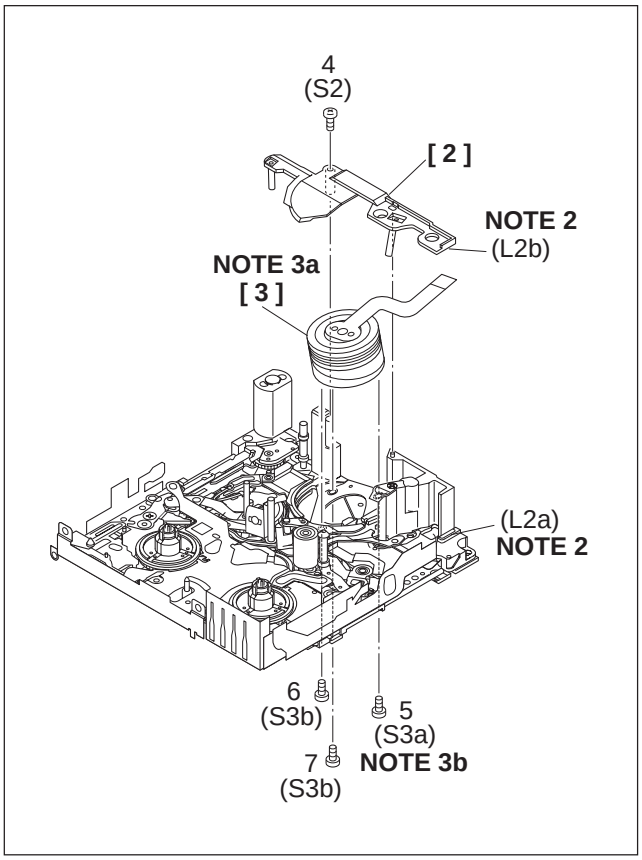


Fig.2-1-15

2.1.5.3 [4] REEL DISK ASSY(SUP)
[5] REEL DISK ASSY(TU)
[6] REEL COVER ASSY

NOTE 4:

Be careful not to attach the REEL DISK wrongly. The Supply side can be identified by the white color at the center.

NOTE 5a:

Be careful not to attach the REEL DISK wrongly. The Take-up side can be identified by the black color at the center.

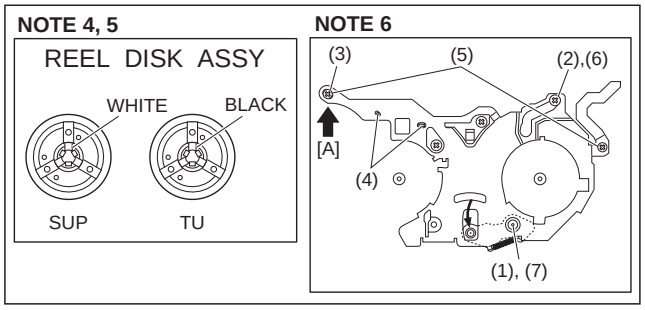
NOTE 5b

The washer is inserted under the REEL DISK.
Be carefull not to lose the washer.
Two washers are inserted under the REEL DISK in some products manufactured earlier, but one washer is inserted in the products manufactured recently and in the future.
See the parts list, and use the parts written in the parts list.

NOTE 6:

Perform the following steps for mounting.

(1) Align the hole with the pin.
(2) Attach the **[17]** PINCH ROLLER ARM FINAL ASSY by aligning the positions.
(3) Attach the SLIDE DECK ASSY (POINT[A]) by aligning the positions.
(4) Check that the parts below them are located in the correct positions.
(5) Tighten the 2 screws.
(6) Tighten the screw.
(7) Attach the 1 SLIT WASHER parts.



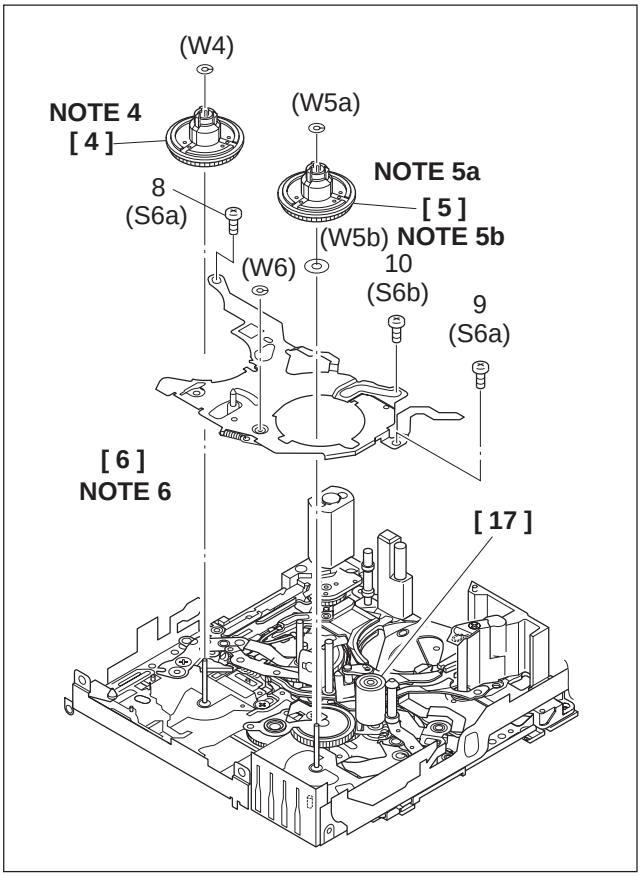


Fig.2-1-16

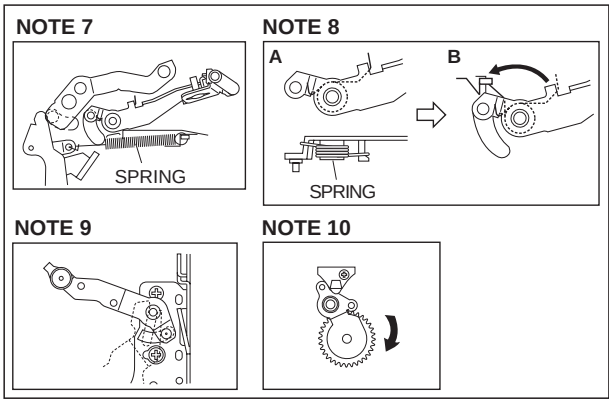
2.1.5.4 [7] TENSION ARM ASSY
[8] SLANT POLE ARM ASSY
[9] TU ARM ASSY
[10] SWING ARM ASSY

NOTE 7:
When detaching, remove the spring of the **[12]** PAD ARM ASSY in advance.
Pay attention to the attachment position.

NOTE 8:
When mounting the SLANT POLE ARM ASSY, hook the spring onto the lug as in diagram A, and fit the combination onto the SLIDE DECK ASSY. After fitting, hook the spring onto the lug of the SLIDE DECK ASSY as in diagram B.
Be careful not to lose the spring.

NOTE 9:
Pay attention to the attachment position.

NOTE 10:
When detaching, remove the screw then remove the SWING ARM ASSY by pulling it up and turning it.



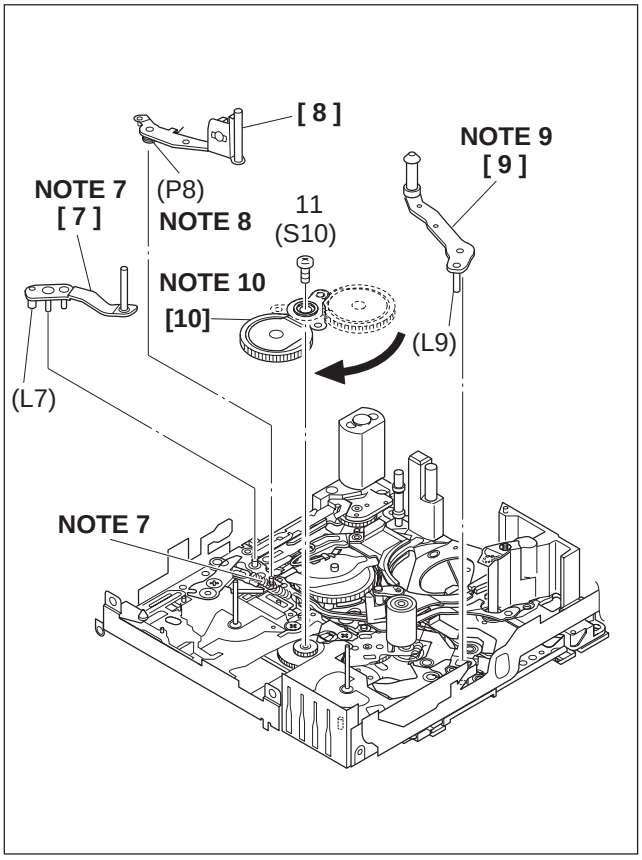


Fig.2-1-17

2.1.5.5 [11] SLIDE DECK ASSY

NOTE 11a:

Each of the parts on the SLIDE DECK ASSY can be replaced separately.

When detaching the assembly, if there is no need to replace any of its parts, remove the SLIDE DECK ASSY as it is.

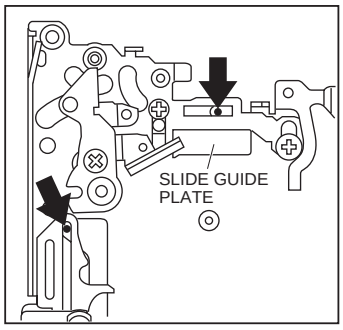
NOTE 11b:

When mounting, pay attention to the positions of the **[22]** SLIDE LEVER 2 ASSY studs and the **[19]** BRAKE CTL LEVER ASSY.

When mounting, position the CONTROL PLATE on the left side.

Pay attention to the position of the SLIDE GUIDE PLATE during mounting.

NOTE 11b



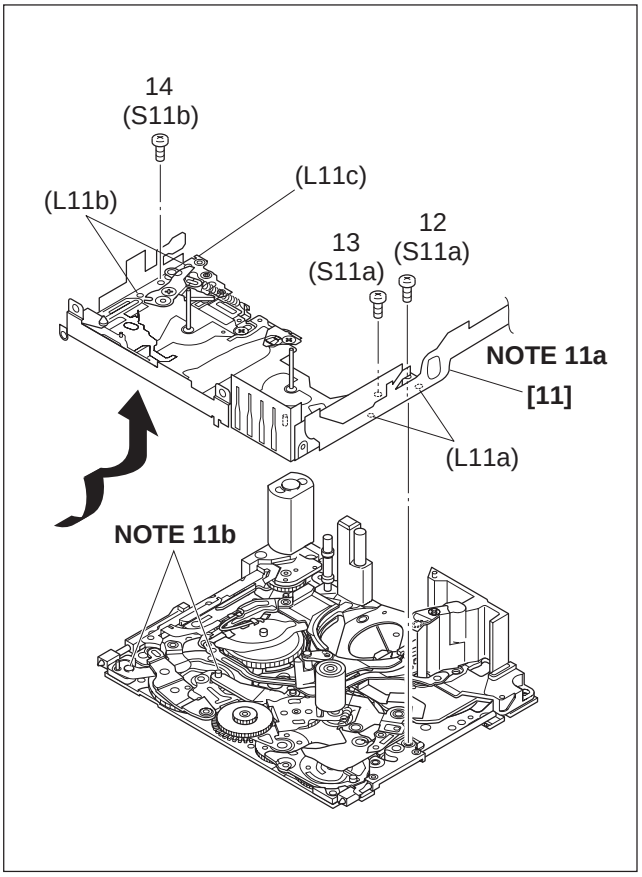


Fig.2-1-18

2.1.5.6 [12] PAD ARM ASSY
[13] -
[14] TU BRAKE ASSY

NOTE 12:

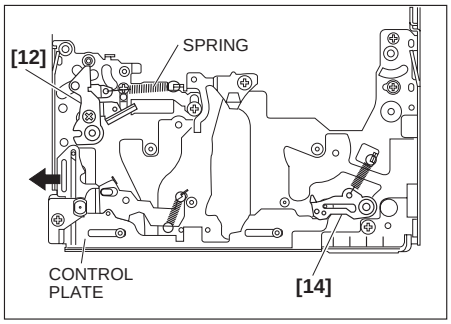
The spring may have already been disengaged when the **[8]** SLANT POLE ARM ASSY was removed.

NOTES 14:

When mounting, pay attention to the correct positioning.

Mount the CONTROL PLATE by moving it fully toward the left side.

NOTE 12,14



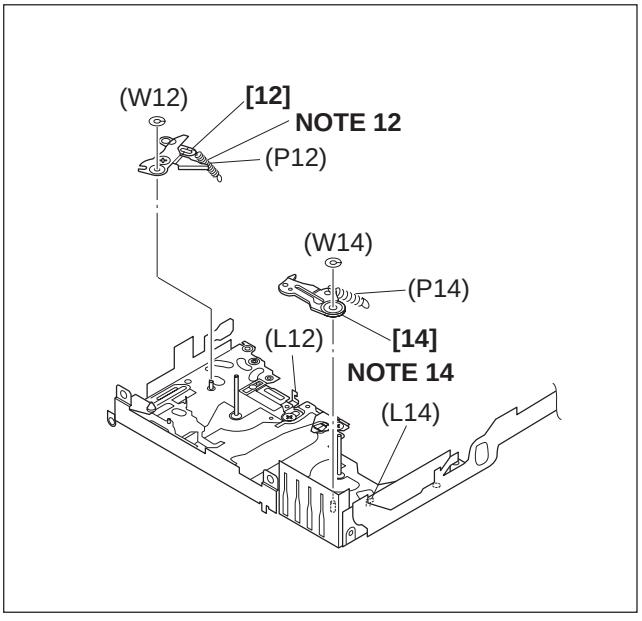


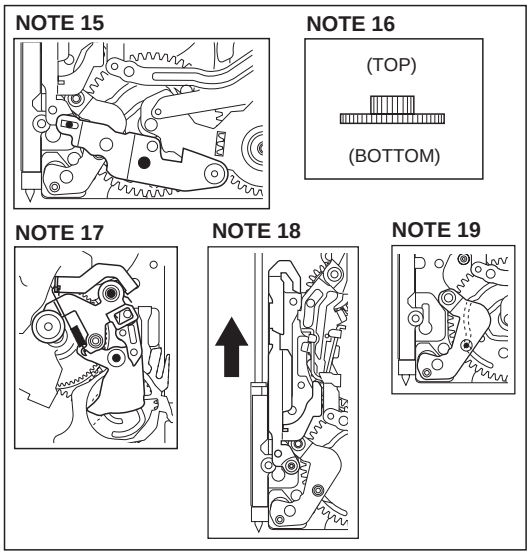
Fig.2-1-19

2.1.5.7 [15] TENSION CTL LEVER ASSY
[16] CENTER GEAR
[17] PINCH ROLLER ARM FINAL ASSY
[18] TENSION CTL PLATE ASSY
[19] BRAKE CTL LEVER ASSY

NOTES 15/16:
When mounting, pay attention to the correct positioning.

NOTE 17:
Take care against grease attachment during work.

NOTES 18/19:
When mounting, pay attention to the correct positioning.



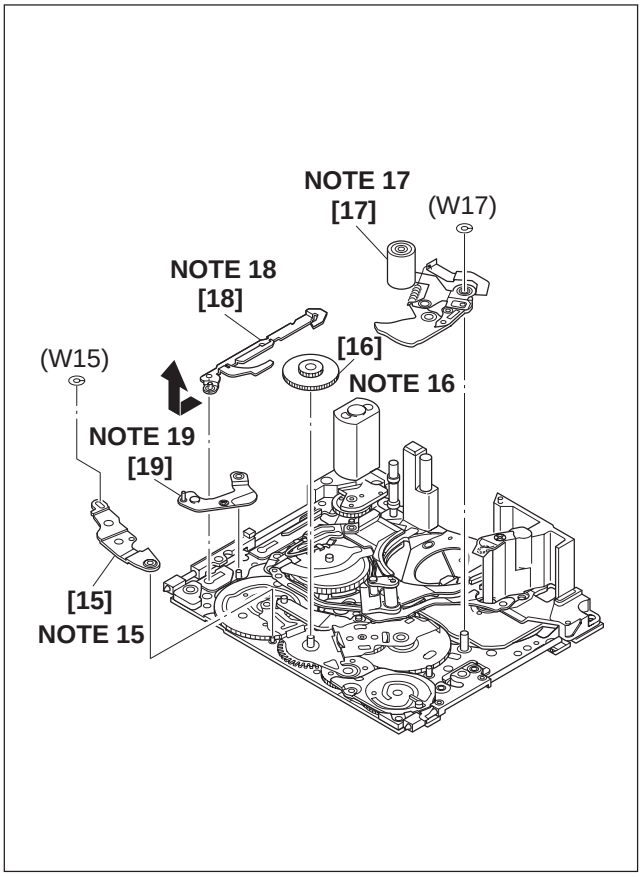


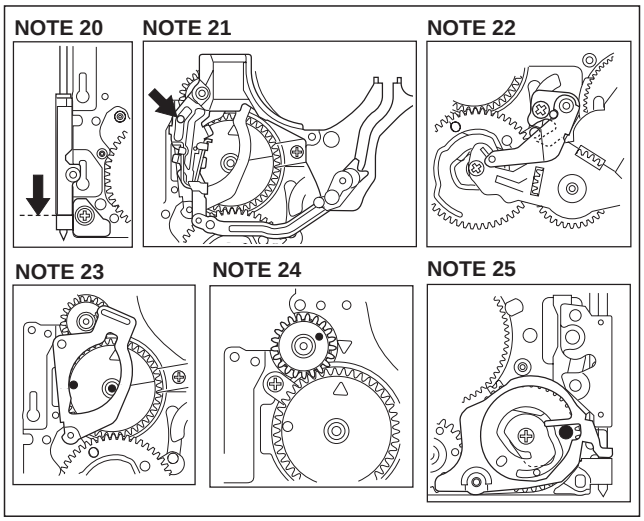
Fig.2-1-20

2.1.5.8 [20] MOTOR BRACKET ASSY
[21] GUIDE RAIL ASSY
[22] SLIDE LEVER 2 ASSY
[23] LOADING PLATE ASSY
[24] MODE GEAR
[25] EJECT LEVER

NOTE 20:
When mounting, pay attention to the positioning of the sliding parts.

NOTE 21:
When mounting, take care that no part is allowed to float or rattle.

NOTES 22/23/24/25:
When mounting, pay attention to the correct positioning.



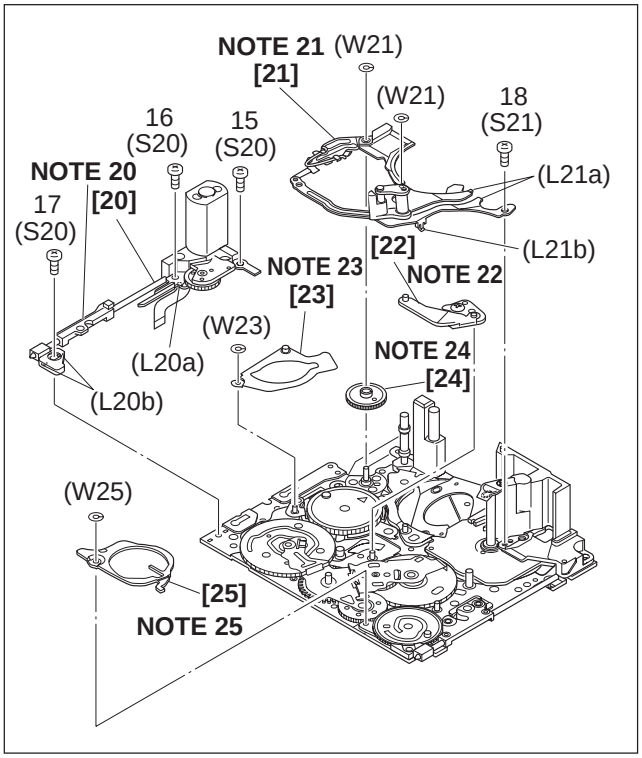


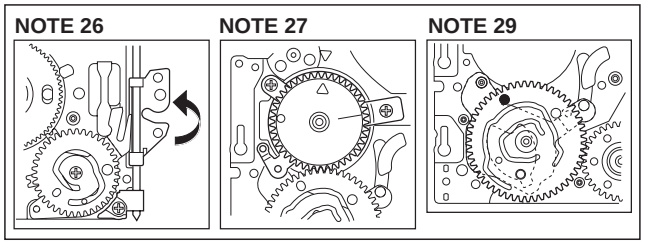
Fig.2-1-21

2.1.5.9 [26] BASE R ASSY
[27] ROTARY ENCODER
[28] GEAR COVER ASSY
[29] MAIN CAM ASSY

NOTE 26:
When mounting, fold the sliding part to the inner side.

NOTE 27:
When mounting, pay attention to the correct positioning and the FPC layout.

NOTE 29:
When mounting, pay attention to the correct positioning.



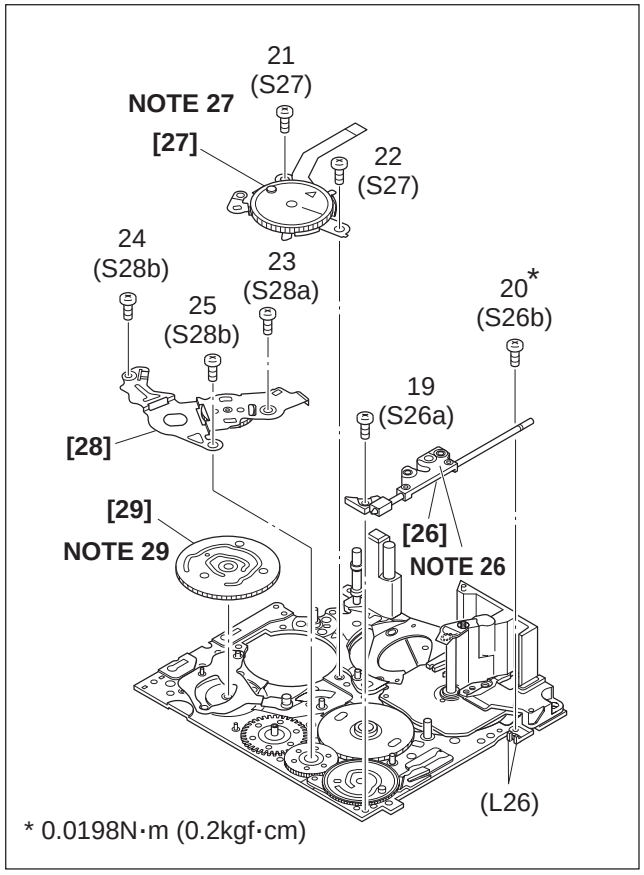


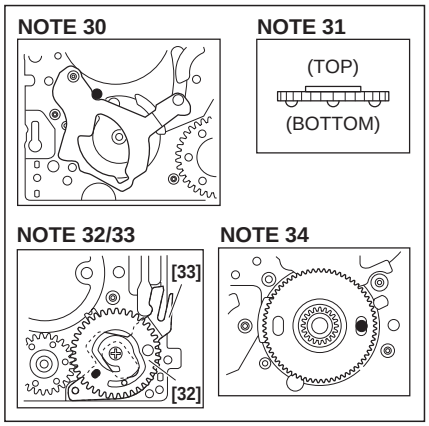
Fig.2-1-22

2.1.5.10 [30] SLIDE ARM ASSY
[31] CONNECT GEAR 2
[32] SUB CAM ASSY
[33] CONTROL ARM ASSY
[34] REEL GEAR 1

NOTE 30:
When mounting, pay attention to the correct positioning.

NOTE 31:
When mounting, pay attention to the position of the front and back.

NOTES 32/33/34:
When mounting, pay attention to the correct positioning.



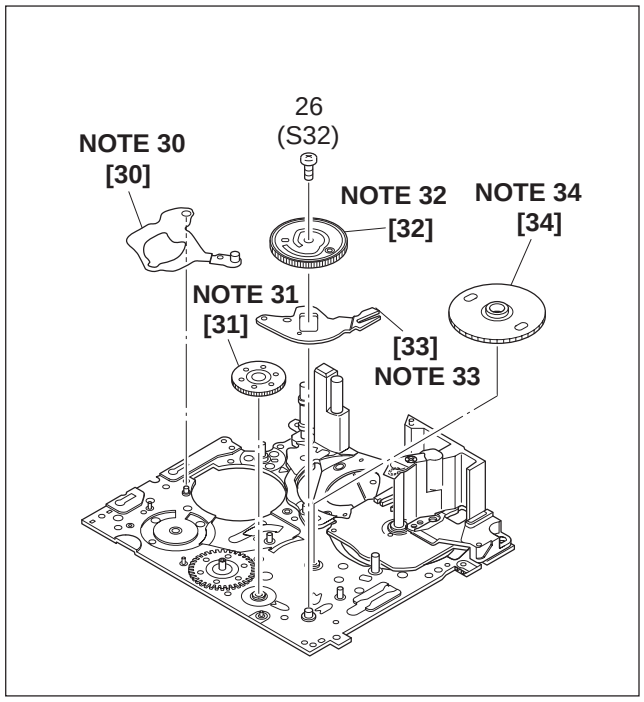


Fig.2-1-23

2.1.5.11 [35] DRUM BASE ASSY
[36] CAPSTAN MOTOR
[37] MAIN DECK ASSY

NOTES 35a/36:

Since [36]CAPSTAN MOTOR is attached to [35]DRUM BASE ASSY, remove [36]CAPSTAN MOTOR together with [35]DRUM BASE ASSY when removing [36]CAPSTAN MOTOR.

[36]CAPSTAN MOTOR should not be separated from [35]DRUM BASE ASSY except when replacing them.

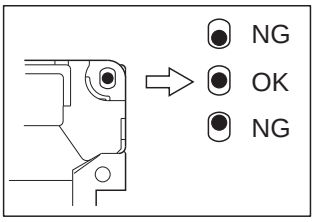
NOTE 35b:

It is very important to attach [35]DRUM BASE ASSY to the proper position.

Especially, improper engagement of [36]CAPSTAN MOTOR with [34]REEL GEAR 1 causes operational defection or abnormal sound. Therefore, confirm the attachment position before disassembly procedure.

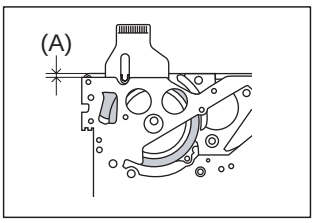
See the following figure as for the proper attachment position.

NOTE 35b



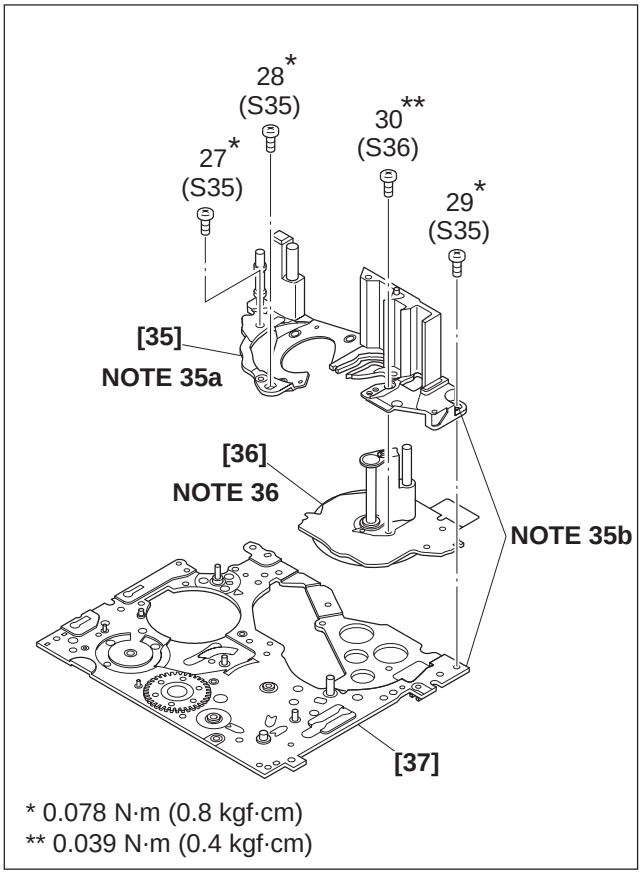
When [35]DRUM BASE ASSY is properly attached, the screw hole tends to be located at the center of the oval.

When the screw hole is located far from the center of the oval, operational defection or abnormal sound may occur.



Before removing [35]DRUM BASE ASSY, confirm the position of [35]DRUM BASE ASSY by seeing the length (A), as shown in the left figure.

When reattaching [35]DRUM BASE ASSY, confirm the position to reattach [35]DRUM BASE ASSY by seeing the length (A). Be sure to reattach [35]DRUM BASE ASSY to the same position as it has been before the removing procedure.



* 0.078 N·m (0.8 kgf·cm)
** 0.039 N·m (0.4 kgf·cm)

Fig.2-1-24

2.1.6 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE

[24]MODE GEAR

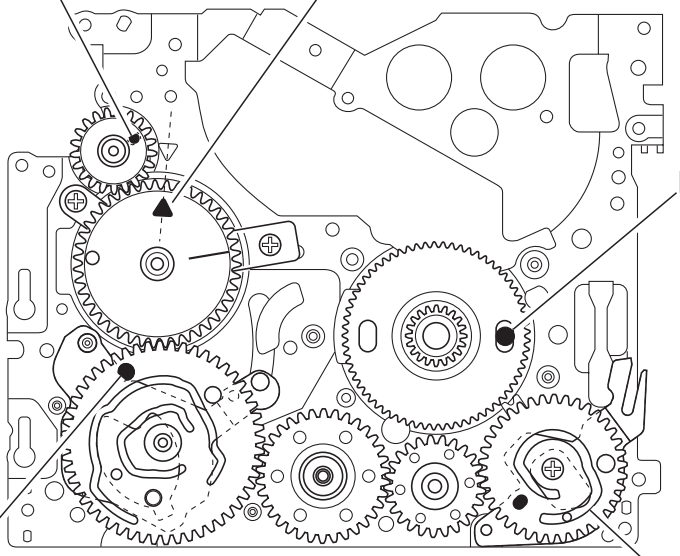
Align the MODE GEAR with the Main Deck Assembly hole.

Note:
The MODE GEAR may be displaced during the mechanism operation, however it can be checked from the rear and realigned during manual assembly.

[27]ROTARY ENCODER

Mount the ROTARY ENCODER by aligning its mark (△) and the mark (▽) of the Main Deck Assembly.

Note:
Be careful when handling the FPC during mounting.



[34]REEL GEAR 1

Align the REEL GEAR 1 with the Main Deck Assembly hole.

Note:
The REEL GEAR 1 may be displaced during mechanism operation, however this can be checked from the rear and realigned during manual assembly.

[29]MAIN CAM ASSY/[30]SLIDE ARM ASSY

When mounting the SLIDE ARM ASSY align it with the Main Deck Assembly and MAIN CAM ASSY holes.

Note:
During the mounting procedure, make sure that the[32] SUB CAM ASSY is in the correct mounting position.

[32]SUB CAM ASSY/[33] CONTROL ARM ASSY

Mount the SUB CAM ASSY hole to align with the CONTROL ARM ASSY and Main Deck Assembly holes and then tighten them all together with a screw.

Note:
When mounting it, make sure that the[29]MAIN CAM ASSY is in the correct mounting position.

Fig.2-1-25

2.1.7 MECHANISM ADJUSTMENTS

2.1.7.1 Adjustment of the slide guide plate

Use Fig. 2-1-26 as the reference unless otherwise specified.

(1) Set the PLAY mode. See Fig. 2-1-8.
(2) Loosen the screws (**A**, **B**).
(3) With the Main Deck and Slide Deck Assemblies pushed into the unit, tighten the screws (**A**, **B**) while applying pressure to the stud (shaft) on the Slide Guide plate.
The pressure applied should be enough to enable utilization of the rebounding force of the springs.
The tightening torque should be 0.069 N•m (0.7 kgf•cm).
(4) Check the operation.
Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

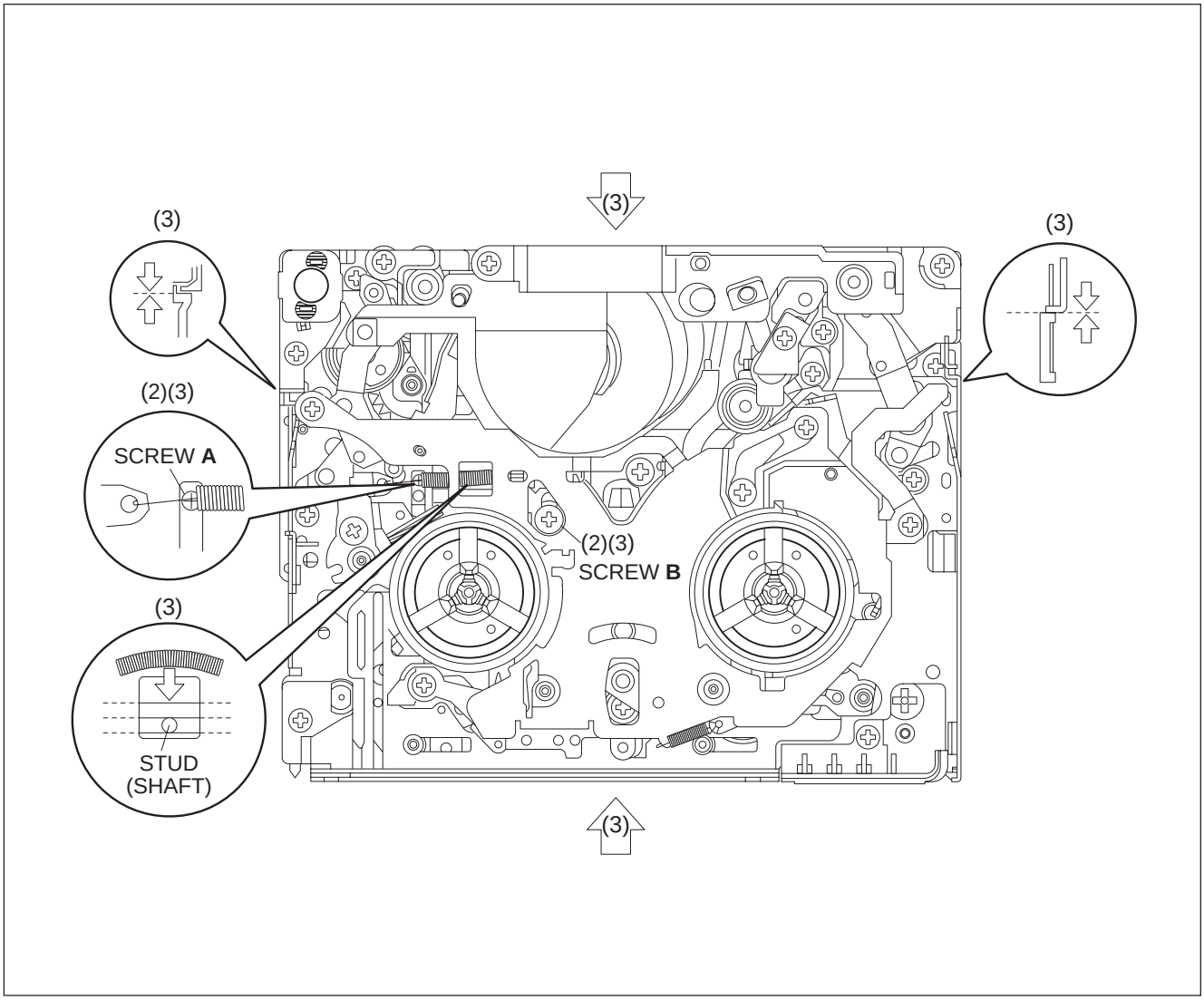


Fig.2-1-26

2.1.7.2 Adjustment of the Tension Arm and Pad Arm Assemblies

Use Fig. 2-1-27 as the reference unless otherwise specified.

(1) Set the PLAY mode.
See Fig. 2-1-8.
(2) Loosen the screw **A**.
(3) With the take-up side at the bottom, align the extreme end of the Tension Arm Assembly with the crossed grooves on the screw **B** that retains the Loading Motor Assembly and then tighten the screw **A**.
The tightening torque should be 0.069 N•m (0.7 kgf•cm).
(4) Check the operation.
Repeat unloading and loading several times and make sure that the Tension Arm Assembly is located within the normal range.

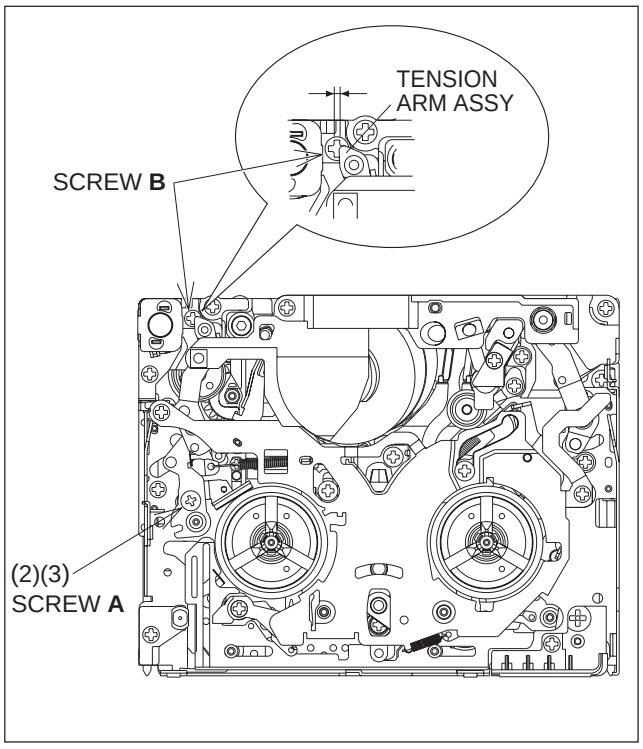


Fig.2-1-27

2.1.7.3 Adjustment of the Slide Lever 2

Use Fig. 2-1-28 as the reference unless otherwise specified.

(1) Set the C IN mode.
See Fig. 2-1-4.
(2) Loosen the screw **A**.
(3) Set the Main Deck and Slide Deck Assemblies apart so that they do not rattle, then tighten the screw **A** by screwing it fully toward the Drum Assembly.
The tightening torque should be 0.069 N•m (0.7 kgf•cm).
(4) Check the operation.
Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

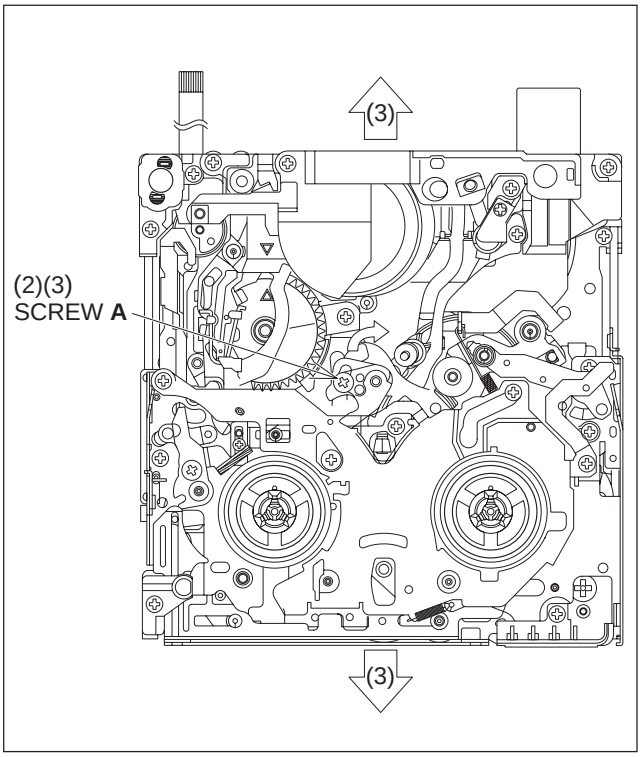


Fig.2-1-28

2.1.8 SERVICE NOTE

Use the following chart to manage mechanism parts that are removed for disassembling the mechanism.

Fig.2-1-14

[1] CASSETTE HOUSING ASSY

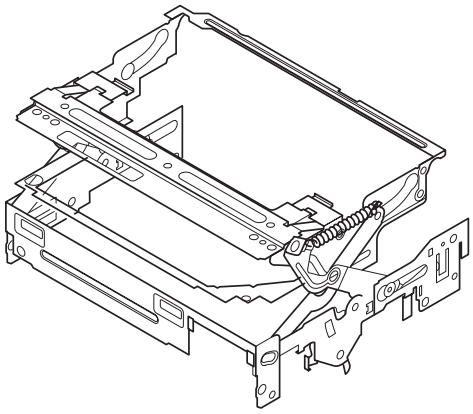


Fig.2-1-15

[2] UPPER BASE ASSY

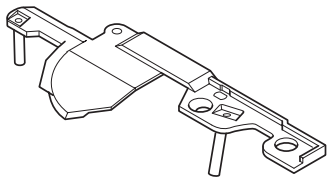


Fig.2-1-15

[3] DRUM ASSY

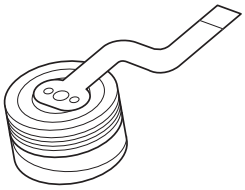
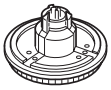
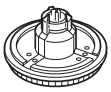


Fig.2-1-16

[4] REEL DISK ASSY(SUP)



[5] REEL DISK ASSY(TU)



[6] REEL COVER ASSY

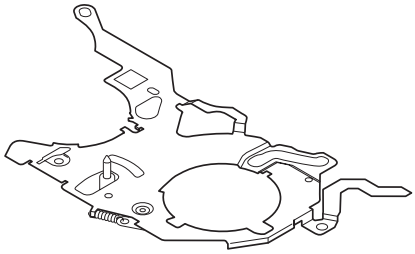
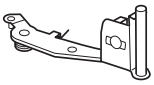


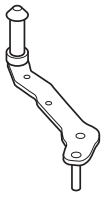
Fig.2-1-17

[7] TENSION ARM ASSY

[8] SLANT POLE ARM ASSY



[9] TU ARM ASSY



[10] SWING ARM ASSY

Fig.2-1-18

[11] SLIDE DECK ASSY

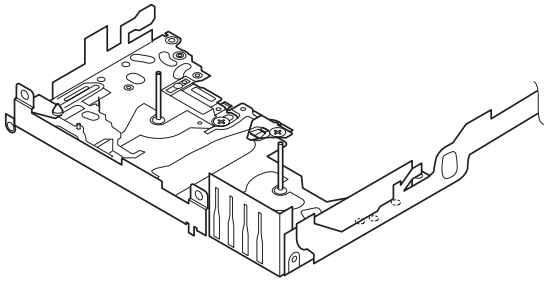


Fig.2-1-19

[12] PAD ARM ASSY

[13]

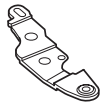
—

[14] TU BRAKE ASSY

Fig.2-1-29

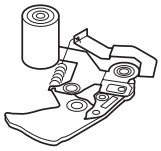
Fig.2-1-20

[15] TENSION CTL LEVER ASSY

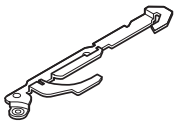


[16] CENTER GEAR

[17] PINCH ROLLER ARM F. ASSY



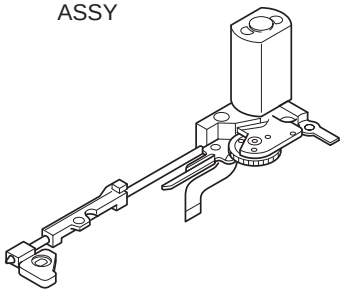
[18] TENSION CTL PLATE ASSY



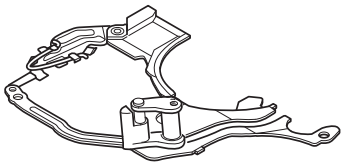
[19] BRAKE CTL LEVER ASSY

Fig.2-1-21

[20] MOTOR BRACKET ASSY



[21] GUIDE RAIL ASSY



[22] SLIDE LEVER 2 ASSY

[23] LOADING PLATE ASSY

[24] MODE GEAR

[25] EJECT LEVER

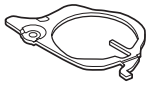
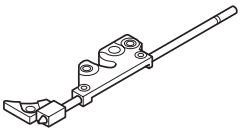
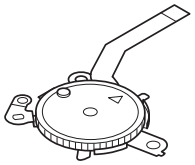


Fig.2-1-22

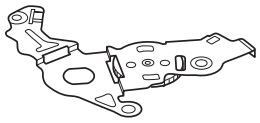
[26] BASE R ASSY



[27] ROTARY ENCODER



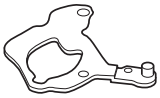
[28] GEAR COVER ASSY



[29] MAIN CAM ASSY

Fig.2-1-23

[30] SLIDE ARM ASSY



[31] CONNECT GEAR 2

[32] SUB CAM ASSY

[33] CONTROL ARM ASSY

[34] REEL GEAR 1

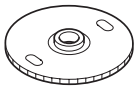
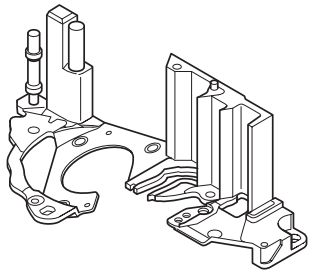
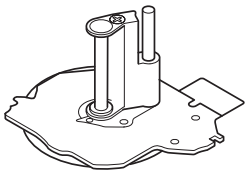


Fig.2-1-24

[35] DRUM BASE ASSY



[36] CAPSTAN MOTOR



[37] MAIN DECK ASSY

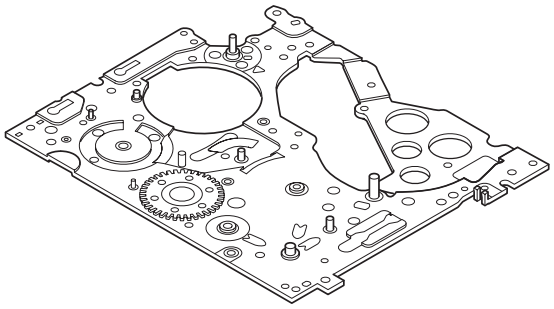


Fig.2-1-30

2.1.9 SERVICE NOTE

Use the following chart to manage screws.

Symbol No.	[1]			[2]	[3]			[6]			[10]	[11]			[20]			[21]	[22]	
Removing order of screw	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Place to stick screw																				
Reference drawing (Fig. No.2-1-**)	14				15				16		17		18			21			22	
Screw tightening torque	Ⅰ				Ⅱ															Ⅲ

Symbol No.	[27]			[28]			[32]	[35]			[36]
Removing order of screw	21	22	23	24	25	26	27	28	29	30	
Place to stick screw											
Reference drawing (Fig. No.2-1-**)	22					23	24				
Screw tightening torque	Ⅱ						Ⅳ			Ⅴ	

<NOTE>

·Pay careful attention to tightening torque for each screw.

Ⅰ : 0.069N·m(0.7kgf·cm)　　Ⅱ : 0.055N·m(0.56kgf·cm)　　Ⅲ : 0.0198N·m(0.2kgf·cm)

Ⅳ : 0.078N·m(0.8kgf·cm)　　Ⅴ : 0.039N·m(0.4kgf·cm)

Fig.2-1-31

2.1.10 REMARKS

2.1.10.1 Cleaning

(1) For cleaning of the upper drum (particularly video heads), use fine-woven cotton cloth with alcohol soaks through. Do not move the cloth but turn the upper drum counterclockwise.

NOTE:
Make sure not to move the cloth in the vertical direction to the video head, since it may cause damage of the video heads.

(2) For cleaning of parts of the tape transport system except the upper drum, use fine-woven cotton cloth or cotton swab soaked alcohol.

(3) After cleaning, confirm that the cleaned parts are completely dry before loading the deck with cassette tape.

2.1.10.2 Applying oil and grease

(1) Periodical oiling and greasing are not required but should be done to new parts when replacing. If oil and grease on the other parts of the other party are old and dirty, wipe them clean and apply new oil or grease.

(2) For parts and points to apply oil and grease, refer to the exploded view of the 3.1 DVC MECHANISM ASSEMBLY. Fig.2-1-32 specifies oil and grease to be used.

(3) When oiling, clean the objective parts with alcohol first and apply one or two drop(s) of oil. Too much oiling causes rotary parts to slip because of oil leakage.

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

specifies oil and grease to be used

Fig.2-1-32

2.2 VHS-C MECHANISM

2.2.1 Precautions

(1) When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.216 N•m (2.2 kgf•cm). Torque setting value of torque driver is limited. At the values over the maximum torque setting value, fasten a screw manually not to damage the screw thread.
(2) Be sure to disconnect the set from the power supply before fastening and soldering parts.
(3) When disconnecting/connecting wires, be careful not to get them and their connectors damaged.
(4) When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

Example

STEP/LOC. No.	PART NAME		FIG.	REMOVAL POINT	INSTALLATION ADJUSTMENT CONDITION NOTE
[1]	ROLLER BASE ASSEMBLY	T	M1	(S1)	–
[2]	TENSION ARM ASSEMBLY	T	M1	(P1), (W1a)	–
[3]	REEL DISC (SUP)	T	M1	(W1a), (W1b)	–
↑ *1	↑ *2	↑ *3	↑ *4	↑ *5	↑ *6

2.2.2 How to read the disassembly and assembly

*1 Order of steps in Procedure
When reassembling, perform the step(s) in the reverse order. These numbers are also used as the identification (location) No. of parts Figures.
*2 Part to Name be removed or installed.
*3 Location of part.

T = The Upper side
B = The Lower side

*4 Fig. No. showing Procedure or Part Location.
M = Mechanism
*5 Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.

P = Spring
W = Washer
S = Screw
* = Unhook, unlock, release, unplug or unsolder.

Example

- Remove (W1)=Washer W1.
- Remove the solder at (SD1)=Point SD1.
- Disconnect A = Connector A.

*6 Adjustment information for installation.
(+) = Refer to Exploded Views for Lubrication information.

2.2.3 DISASSEMBLY/ASSEMBLY PROCEDRURE TABLE

This procedure starts with the condition that the cabinet parts and deck parts. Also, all the following procedures for adjustment and parts replacement should be performed in STOP mode. When reassembling, perform the step(s) in the reverse order.

STEP/LOC. No.	PART NAME		FIG.	REMOVAL POINT	INSTALLATION ADJUSTMENT CONDITION NOTE
[1]	ROLLER BASE ASSY	T	M1	(1)	–
[2]	TENSION ARM ASSY	T	M1	(P1), (W1a)	–
[3]	REEL DISC	T	M1	(W1a), (W1b)	–
[4]	SLANT ARM ASSY	T	M1	(W1a)	–
[5]	CANCEL LEVER ASSY	T	M2	(W2)	–
[6]	EJECT LEVER ASSY	T	M2	(W2)	–
[7]	CASSETTE GUIDE (LEFT)	T	M2	(2)	–
[8]	SUPPLY CLUTCH ASSY	T	M2	(W2)	–
[9]	WHEEL GEAR	T	M2	(W2)	See, Adjustment procedure for Section 2.2.5
[10]	ROTARY ENCODER	B	M3	4(S3a)	The function of this part varies according to the ASSY (VHS/SVHS) which this part is rporated in. (Refer to fig. 2-2-6)
[11]	TIMING BELT	B	M3	–	–
[12]	CENTER PULLEY UNIT	T/B	M3	2(S3a)	–
[13]	CASSETTE GUIDE (R) ASSY	T	M3	(S3b), (P3)	(Only use SVHS model)
[14]	TAKE UP GEAR	T	M3	(W3a)	–
[15]	BRAKE SUB GEAR	T	M3	(W3a)	–
[16]	PINCH ROLLER ARM ASSY	T	M3	(W3b)	–
[17]	TAKE UP GUIDE ARM ASSY	T	M3	(W3a)	–
[18]	LINK ARM ASSY	T	M4	(W4)	–
[19]	LED GUIDE	T	M4	(S4a)	–
[20]	A/C HEAD UNIT	T	M4	2(S4b)	–
[21]	SLANT POLE BASE ASSY	T	M5	(S5a)	–
[22]	CAPSTAN MOTOR	T	M5	3(S5a)	–
[23]	MOTOR BASE	T	M5	2(S5b), (S5c)	–
[24]	BRUSH	B	M6	(S6a)	–
[25]	DRUM FINAL ASSY	T/B	M6	2(S6b), 2(S6c) *CATCHER	–
[26]	GUIDE RAIL	T	M6	7(S6d), 8(S6d)	(Refer to part list.)
[27]	POLE BASE (S)ASSY	T	M6	–	–
[28]	POLE BASE (T)ASSY	T	M6	–	–
[29]	COVER PLATE	T	M7	–	–
[30]	DRIVE LEVER ASSY	T	M7	–	–
[31]	MOTOR BRACKET ASSY	T	M7	3(S7)	–
[32]	CONTROL CAM	T	M8	(W8a)	See, Adjustment procedure for Section 2.2.5
[33]	LINK LEVER	T	M8	_	See, Adjustment procedure for Section 2.2.5
[34]	MIDDLE GEAR	T	M8	–	–
[35]	LOADING GEAR(T) ASSY	T	M8	(W8b)	See, Adjustment procedure for Section 2.2.5
[36]	LOADING GEAR(S) ASSY	T	M8	(W8b)	–
[37]	LOADING RING ASSY	T	M8	4(S8)	See, Adjustment procedure for Section 2.2.5

Fig.2-2-1

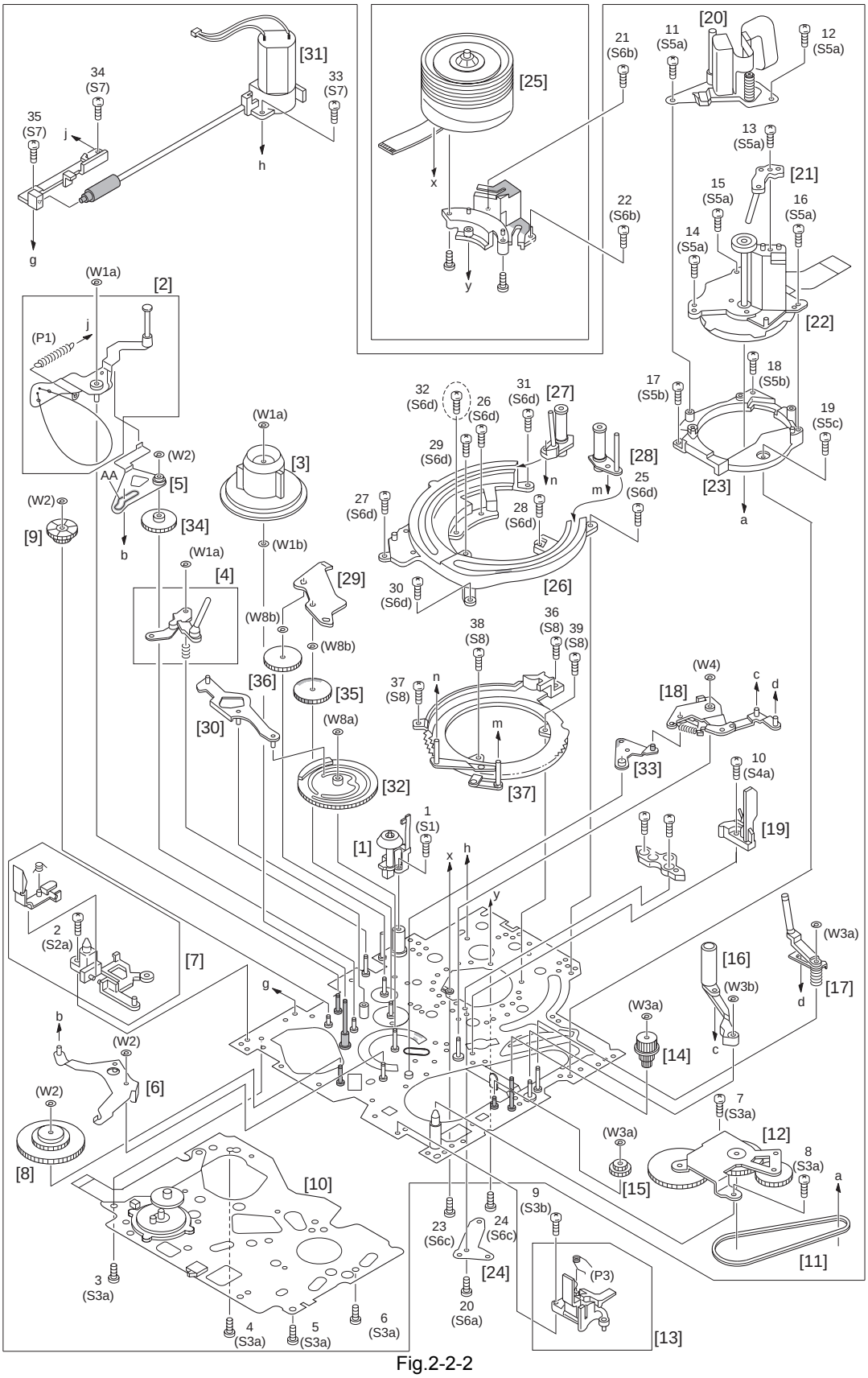

[31]
34 (S7)
33 (S7)
35 (S7)
j
h
g
[25]
x
y
21 (S6b)
22 (S6b)
[20]
11 (S5a)
12 (S5a)
13 (S5a)
[21]
15 (S5a)
16 (S5a)
14 (S5a)
[22]
(W1a)
[2]
(P1)
j
AA
(W2)
[5]
b
[34]
[9]
(W2)
(W1a)
[3]
(W1b)
[4]
[29]
(W8b)
(W8b)
[36]
[35]
[30]
(W8a)
[32]
32 (S6d)
26 (S6d)
31 (S6d)
[27]
29 (S6d)
n
[28]
m
25 (S6d)
27 (S6d)
28 (S6d)
[26]
30 (S6d)
17 (S5b)
18 (S5b)
19 (S5c)
[23]
a
38 (S8)
36 (S8)
39 (S8)
37 (S8)
n
m
[37]
(W4)
c
d
[18]
[33]
10 (S4a)
[19]
[1]
1 (S1)
x
h
y
2 (S2a)
[7]
g
b
(W2)
[6]
(W2)
[8]
[10]
3 (S3a)
4 (S3a)
5 (S3a)
6 (S3a)
23 (S6c)
24 (S6c)
9 (S3b)
[24]
20 (S6a)
(P3)
[13]
(W3a)
[16]
(W3b)
c
(W3a)
[14]
(W3a)
[17]
d
7 (S3a)
(W3a)
[15]
[12]
8 (S3a)
a
[11]

Fig.2-2-2

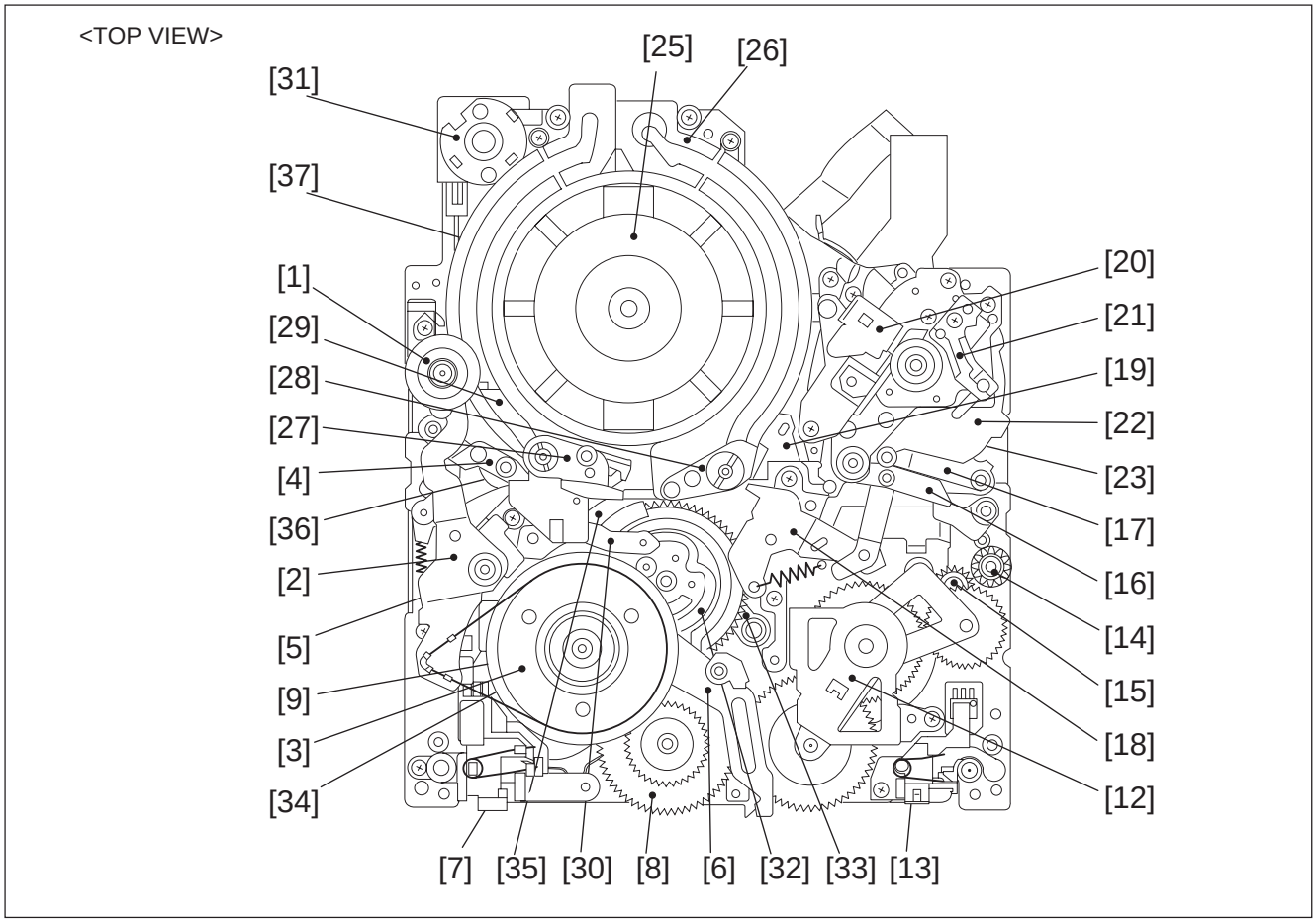


Fig.2-2-3

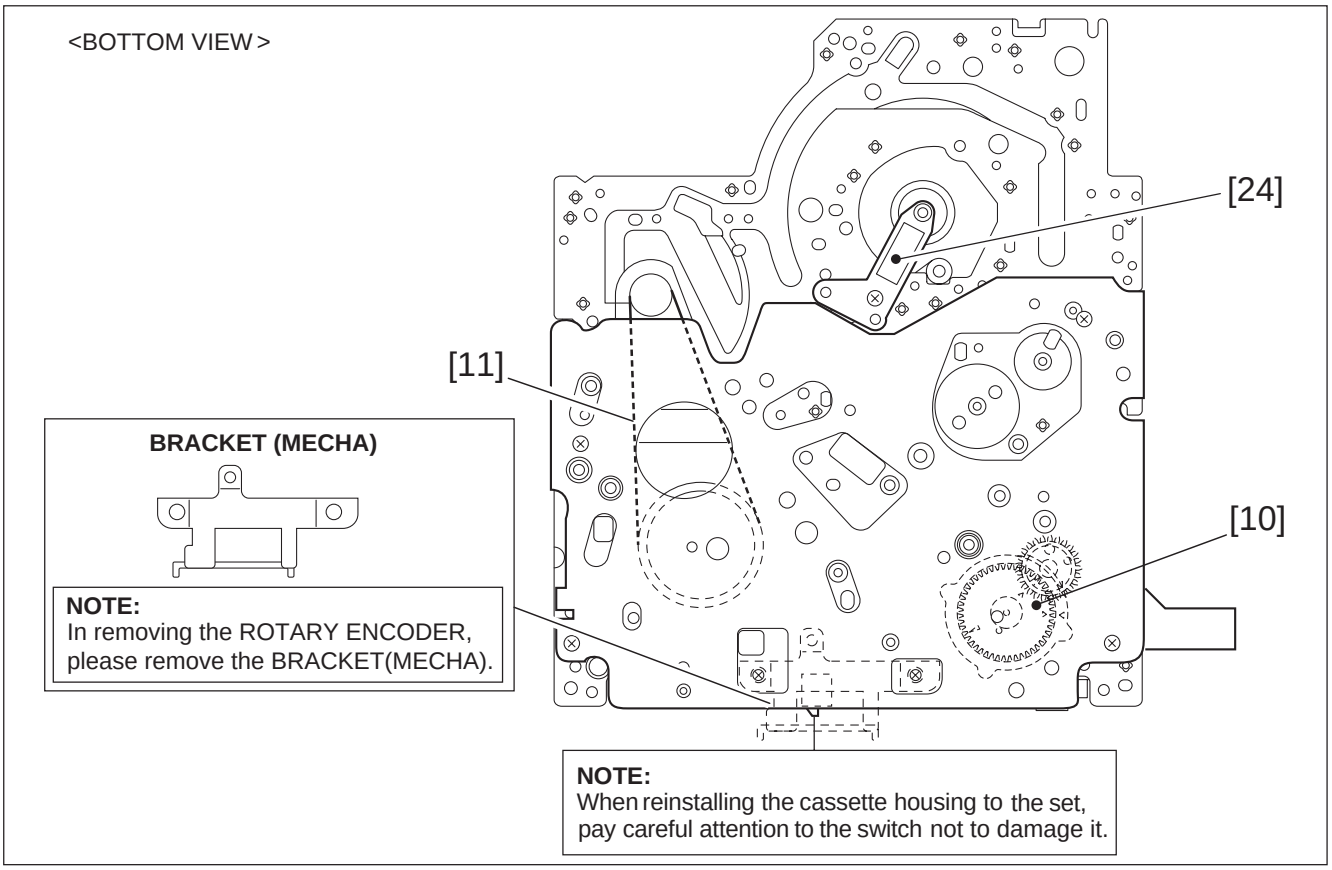

<BOTTOM VIEW>
[24]
[11]
[10]
BRACKET (MECHA)
NOTE:
In removing the ROTARY ENCODER, please remove the BRACKET(MECHA).
NOTE:
When reinstalling the cassette housing to the set, pay careful attention to the switch not to damage it.

Fig.2-2-4

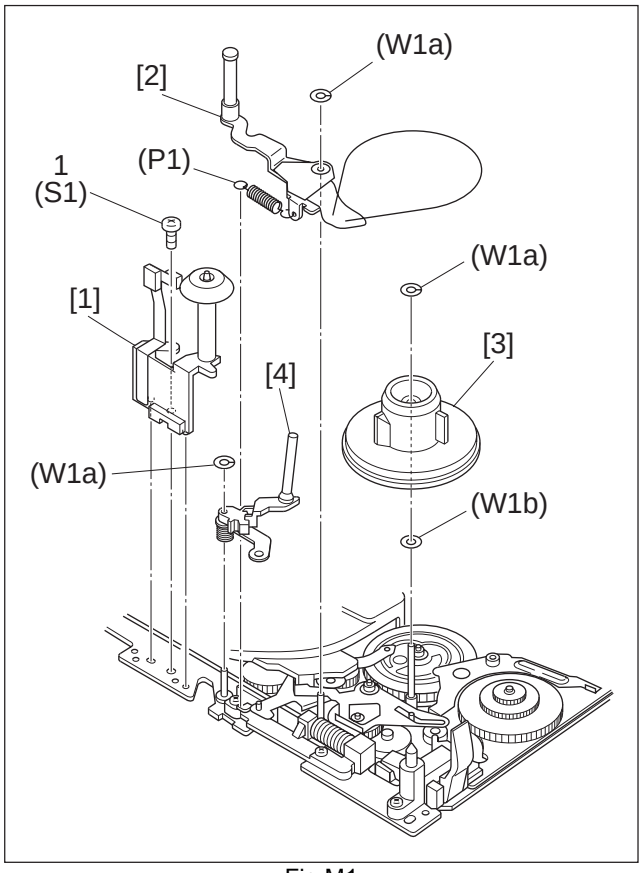


Fig.M1

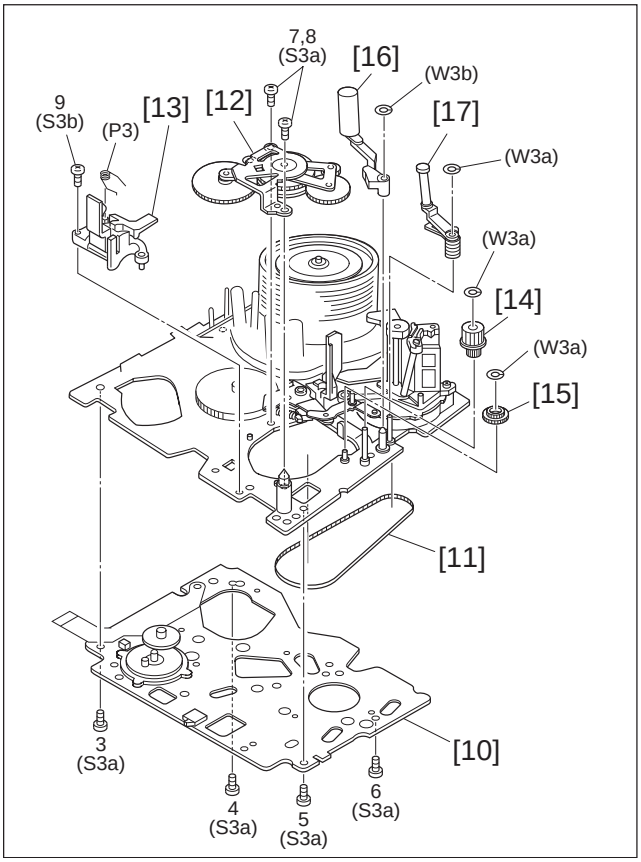


Fig.M3

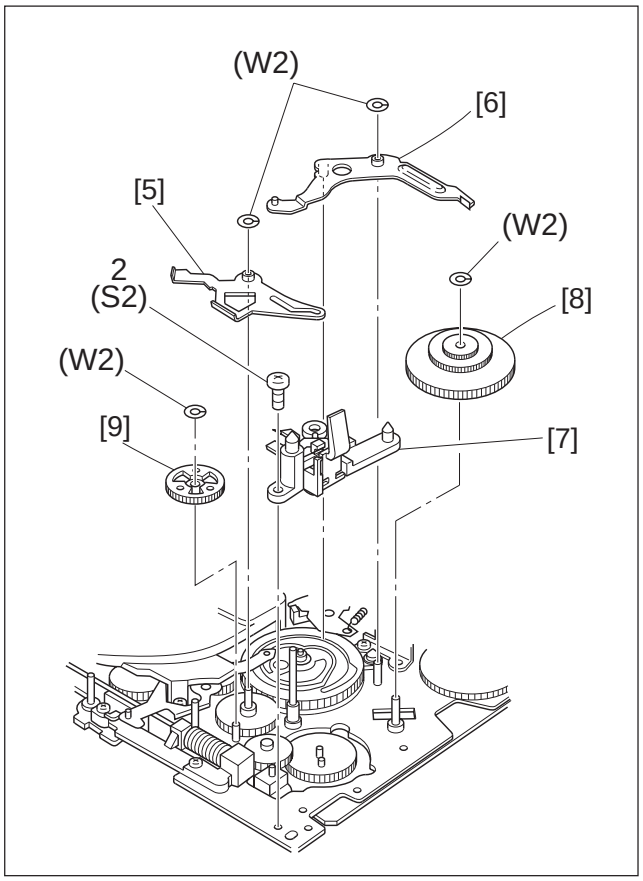


Fig.M2

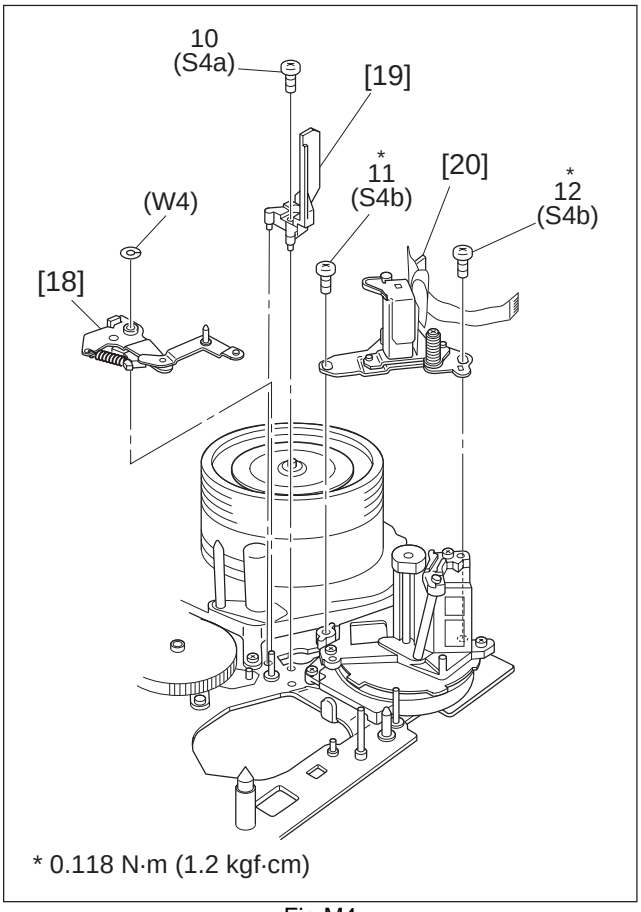


Fig.M4

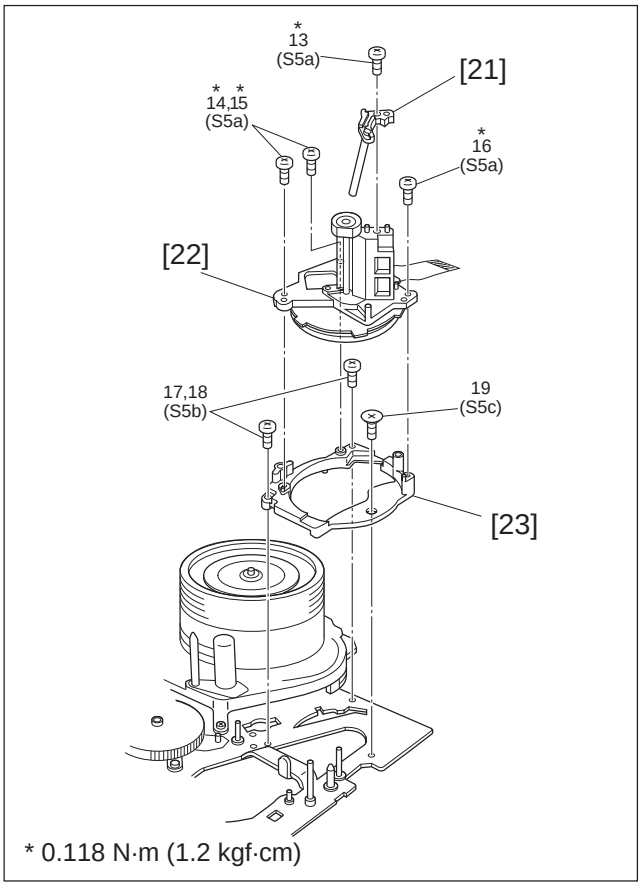


Fig.M5

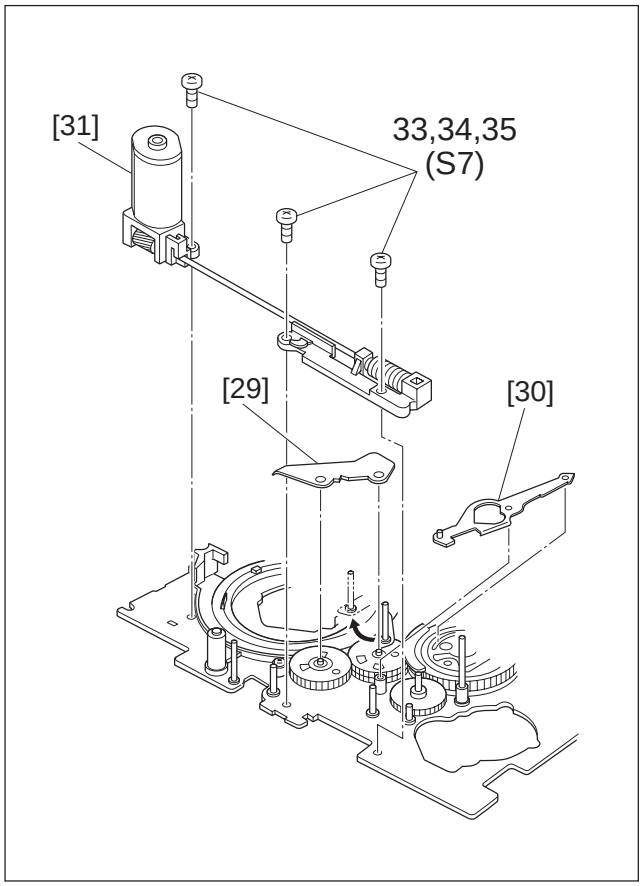


Fig.M7

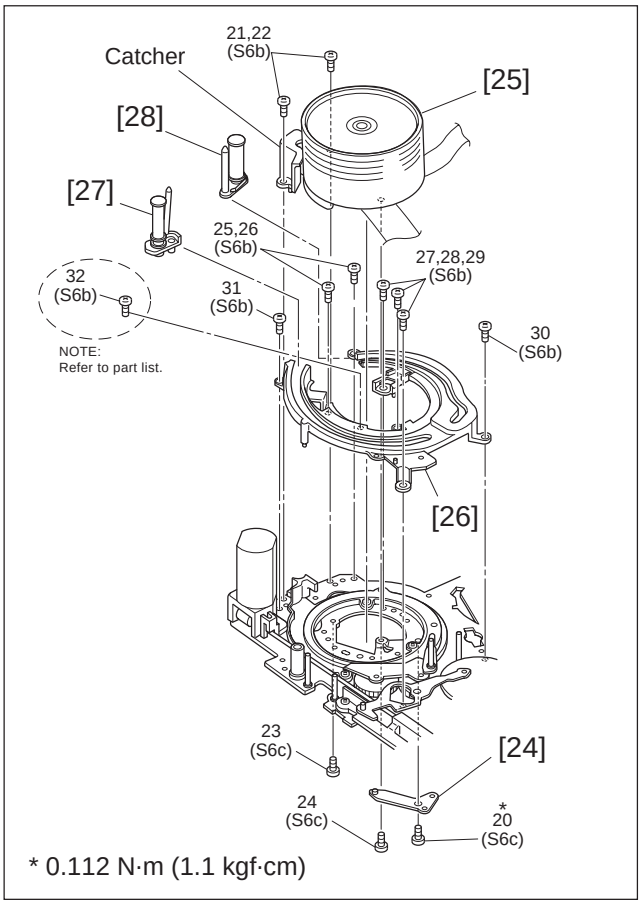


Fig.M6

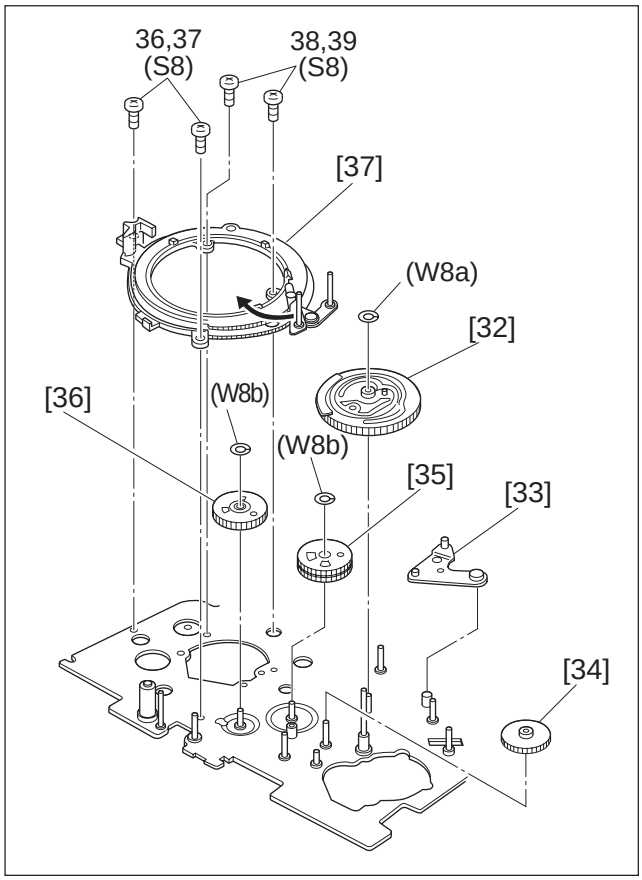


Fig.M8

2.2.4 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE

NOTE:

Pay careful attention to the installing order and phase of mechanism parts of the loading system.

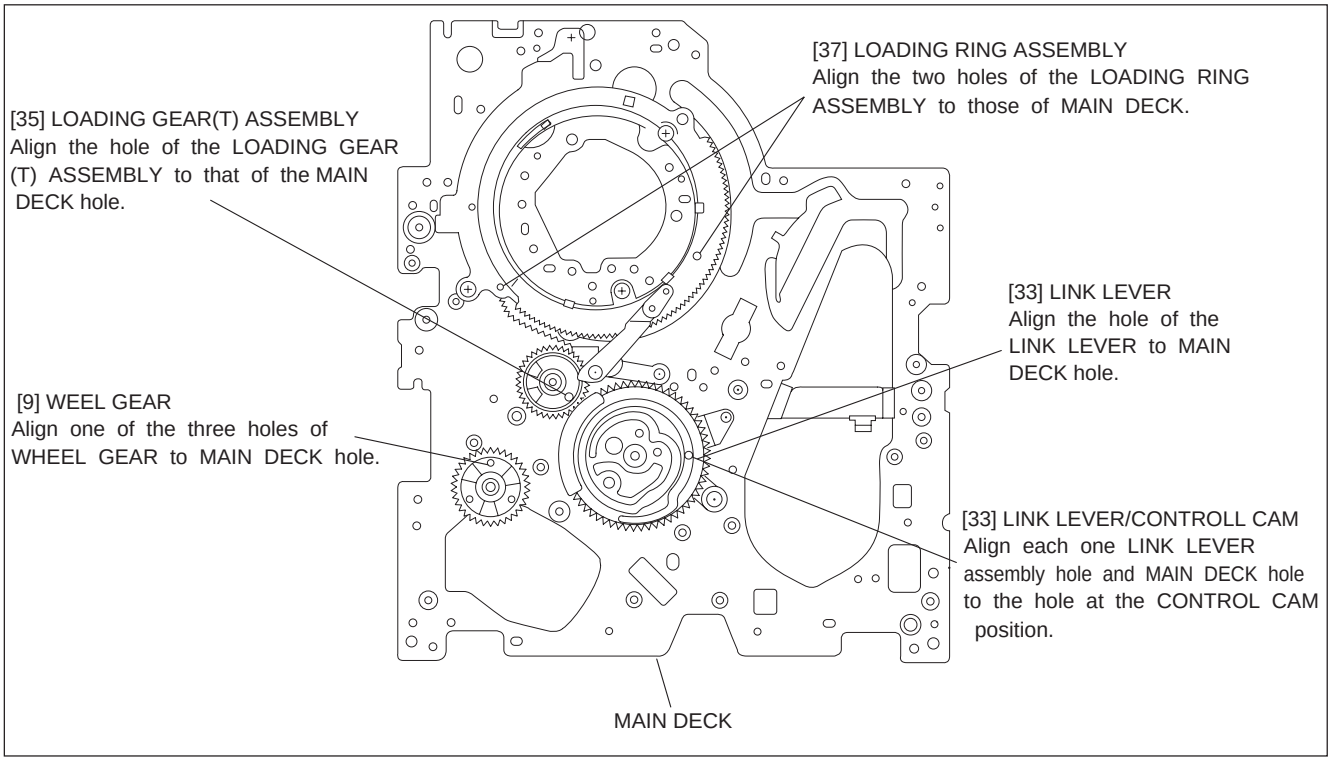

[37] LOADING RING ASSEMBLY
Align the two holes of the LOADING RING ASSEMBLY to those of MAIN DECK.
[35] LOADING GEAR(T) ASSEMBLY
Align the hole of the LOADING GEAR (T) ASSEMBLY to that of the MAIN DECK hole.
[33] LINK LEVER
Align the hole of the LINK LEVER to MAIN DECK hole.
[9] WEEL GEAR
Align one of the three holes of WHEEL GEAR to MAIN DECK hole.
[33] LINK LEVER/CONTROLL CAM
Align each one LINK LEVER assembly hole and MAIN DECK hole to the hole at the CONTROL CAM position.
MAIN DECK

Fig.2-2-5 Top of main deck

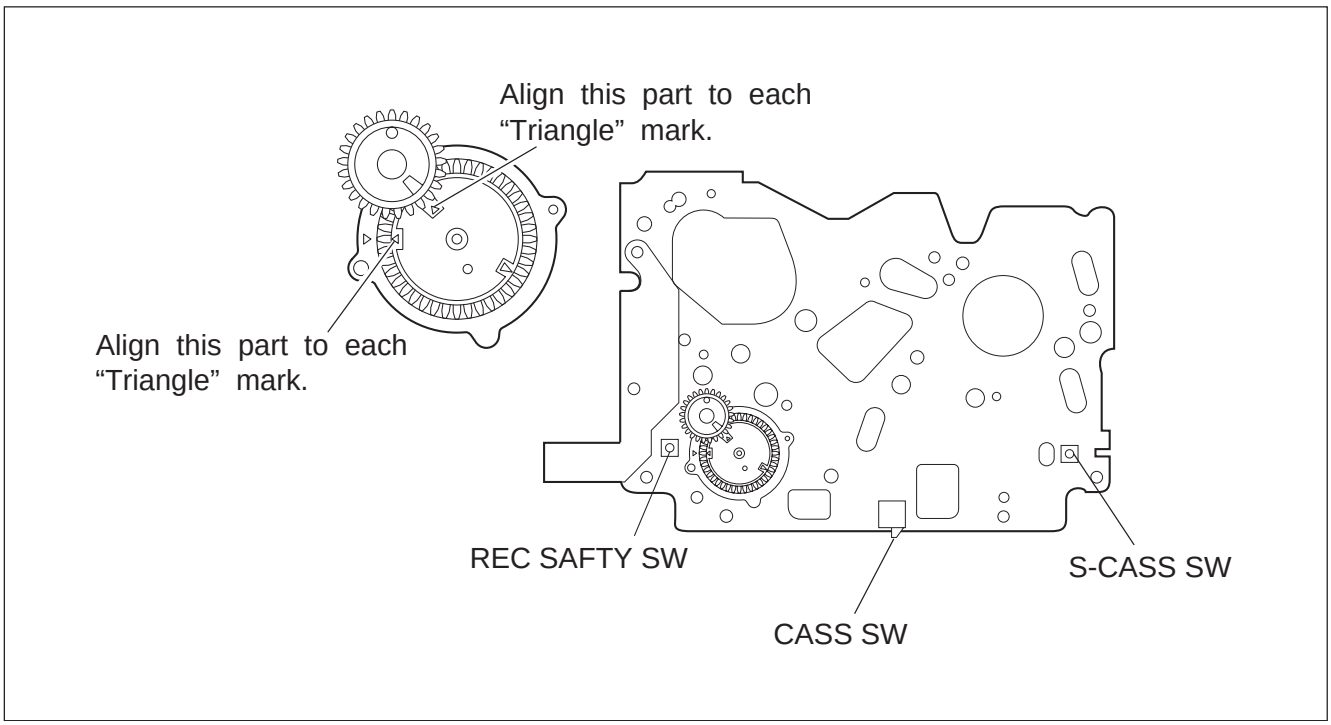


Fig.2-2-6 Rotary encoder

2.2.5 SERVISE NOTE

Use the following chart to manage screws.

Symbol No.	[1]	[7]	[10]				[12]		[13]	[19]	[20]		[21]	[22]			[23]		
Removing order of screw	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Place to stick screw																			
Reference drawing (Fig. No.)	M1	M2	M3							M4			M5						
Screw tightening torque	I										II						I		

Symbol No.	[24]	[25]			[26]							[31]			[37]		
Removing order of screw	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Place to stick screw																				
Reference drawing (Fig. No.)	M6													M7			M8			
Screw tightening torque	III	I																		

<NOTE>

・Pay careful attention to tightening torque for each screw.
Torque setting value of torque driver is limited. At the values over the maximum torque setting value, fasten a screw manually not to damage the screw thread.

I : 0.216N・m(2.2kgf・cm)　　II : 0.118N・m(1.2kgf・cm)　　III : 0.112N・m(1.1kgf・cm)

Fig.2-2-7

2.2.6 REMARKS

2.2.6.1 Cleaning

(1) For cleaning of the upper drum (particularly video heads), use fine-woven cotton cloth with alcohol soaks through. Do not move the cloth but turn the upper drum counterclockwise.

NOTE:
Make sure not to move the cloth in the vertical direction to the video head, since it may cause damage of the video heads.

(2) For cleaning of parts of the tape transport system except the upper drum, use fine-woven cotton cloth or cotton swab soaked alcohol.

(3) After cleaning, confirm that the cleaned parts are completely dry before loading the deck with cassette tape.

2.2.6.2 Applying oil and grease

(1) Periodical oiling and greasing are not required but should be done to new parts when replacing. If oil and grease on the other parts of the other party are old and dirty, wipe them clean and apply new oil or grease.

(2) For parts and points to apply oil and grease, refer to the exploded view of the 3.2 VHS-C MECHANISM ASSEMBLY. Fig.2-2-8 specifies oil and grease to be used.

(3) When oiling, clean the objective parts with alcohol first and apply one or two drop(s) of oil. Too much oiling causes rotary parts to slip because of oil leakage.

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB

specifies oil and grease to be used

Fig.2-2-8

2.3 VHS MECHANISM

2.3.1 Notes

This model's mechanism relates closely to the rotary encoder and system control circuit (the rotary encoder is meshed with the control cam).
The system control circuit detects the mechanism condition using the rotary encoder's phase (internal switch phase). Therefore, the parts such as the rotary encoder, control plate, loading gear and control cam need to be installed correctly in order for the mechanism to operate properly. (For the mechanism phase adjustment, refer to the installation of each part.)

- Before using a soldering iron, be sure to disconnect the power plug from the AC outlet.
- Do not touch any of the adjustment points until a defect position is specified.
- When plugging or unplugging the connector, be sure not to damage the wire.
- Be sure the springs are hooked all the way around and in the correct direction.
- When performing repairs, take care not to damage a catch, etc.

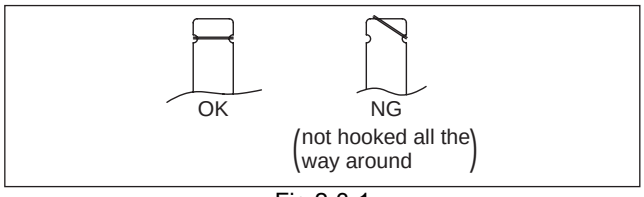


Fig.2-3-1

2.3.2 Mechanism operation check

When the mechanism is operated without a cassette loaded, operate the mechanism in the mechanism service mode.

2.3.3 Setting the mechanism assembling mode

The mechanism-assembling mode is provided with this mechanism. When disassembling and assembling, it is required to engage this mode.
Set the mode by adopting the following procedures.

(1) Remove the mechanism assembly using the disassembling procedure.
(2) Turn gear (a) of the loading motor manually to set the mechanism assembly to the eject end mode. Make sure that the main deck is connected to the guide hole (a) of the drive lever and the seal (a) of the main deck is connected to the mark "E" of the control plate. This condition is called the mechanism-assembling mode.

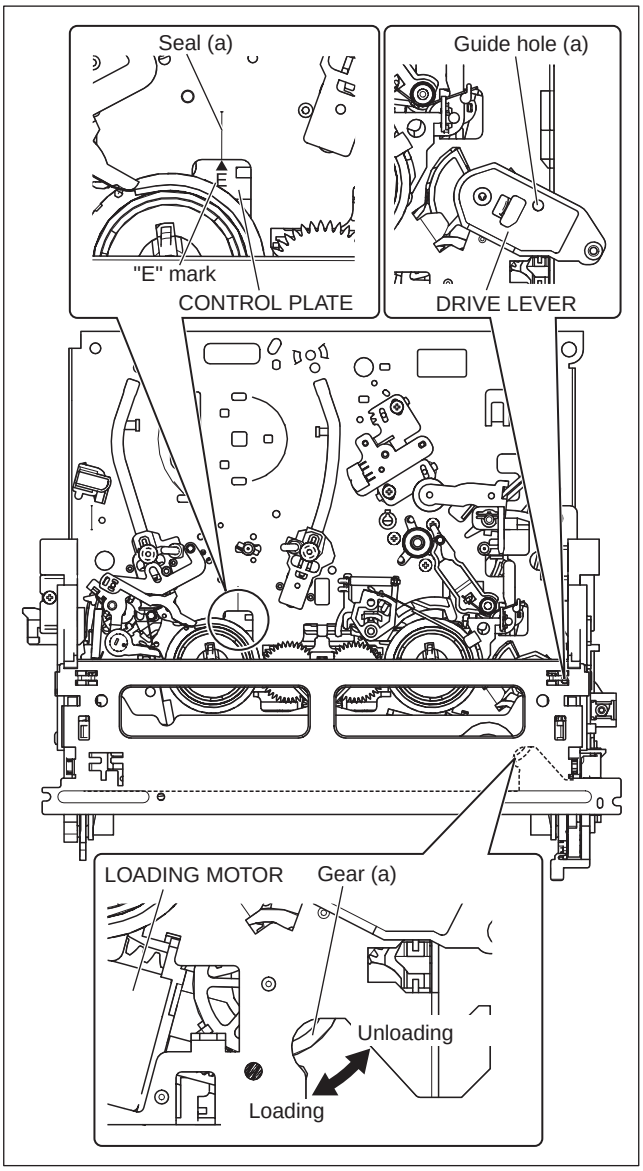


Fig.2-3-2

2.3.4 Layout of the main mechanism parts

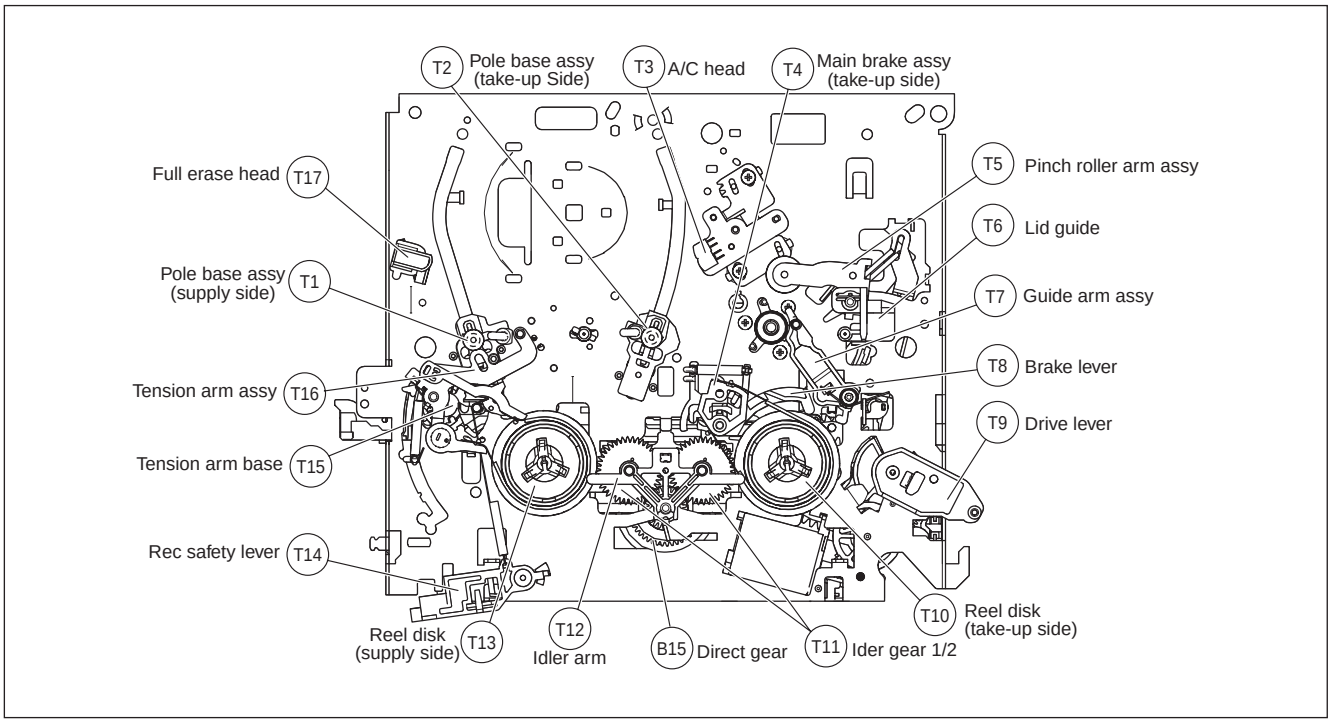

T2 Pole base assy (take-up Side)
T3 A/C head
T4 Main brake assy (take-up side)
Full erase head T17
T5 Pinch roller arm assy
T6 Lid guide
Pole base assy (supply side) T1
T7 Guide arm assy
T8 Brake lever
Tension arm assy T16
T9 Drive lever
Tension arm base T15
Rec safety lever T14
T10 Reel disk (take-up side)
Reel disk (supply side) T13
T12 Idler arm
B15 Direct gear
T11 Ider gear 1/2

Fig.2-3-3

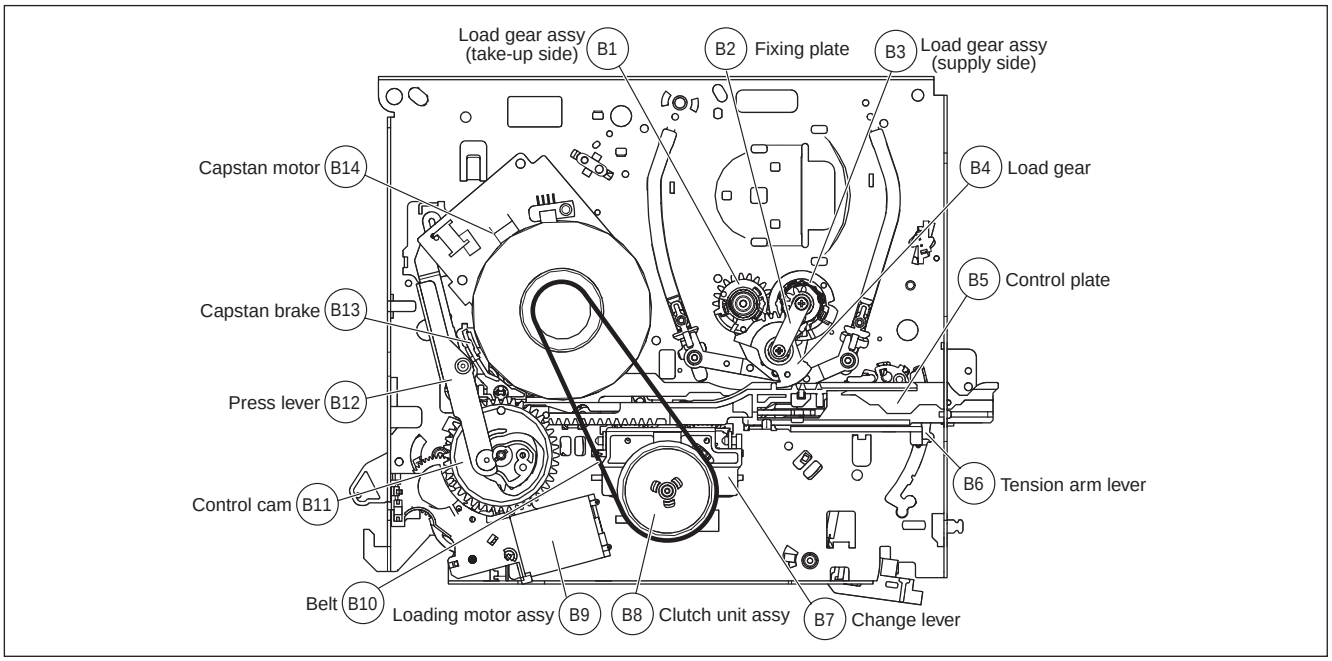


Fig.2-3-4

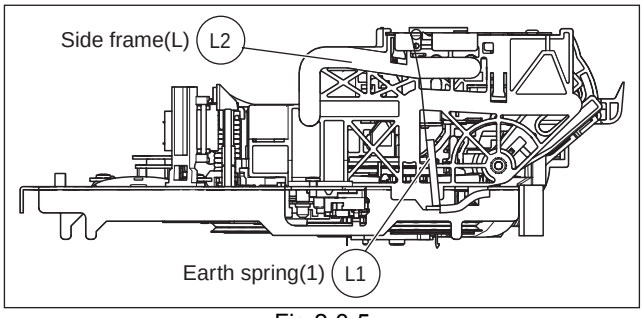


Fig.2-3-5

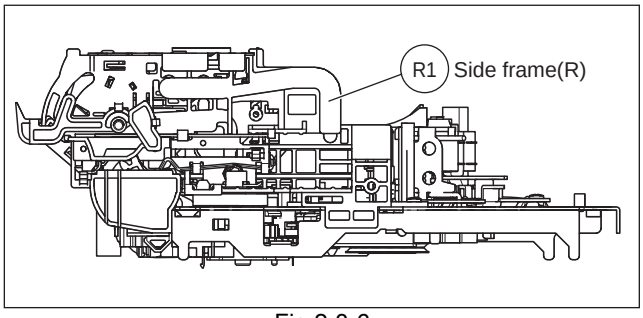


Fig.2-3-6

2.3.5 Disassembling procedure table

This table shows the order of parts removal when replacing each part. For replacement, remove the parts in the order of 1 to 13 shown in the table and install the parts in the reverse order.

The symbol number before each part name shows the number in the figure “Layout of the main mechanism parts”. T and B on the right of each part name show the side from which the part should be removed (T: From the front of the mechanism, B: From the rear of the mechanism, T/B: From both sides).

Symbols and numbers	Removal parts / (Reference items) Replacement parts	Front(T)/Back(B) of mechanism	Number of removal steps	Earth spring (1)	Top frame	Cassette holder	Side frame (L)	Drive arm	Side frame (R)	Lid guide	Idler arm	Idler gear 1/2	Main brake (T)	Reel disk (T)	Tension arm	Tension arm base	Press lever	Control cam	Capstan brake assy	Loading motor assy	Belt	Fixing plate	Load gear	Loading gear assy (S)	Loading gear assy (T)	Control plate	Clutch unit	Direct gear
L1	2.1 Earth spring (1)	T	1																									
-	2.1 Top frame	T	2	1																								
-	2.1 Cassette holder	T	3	1	2																							
L2	2.1 Side frame (L)	T	3	1	2																							
-	2.1 Drive arm	T	5	1	2	3	4																					
R1	2.1 Side frame (R)	T	3	1	2																							
T3	2.2 A/C head	T	1																									
T17	- FE head	T/B	1																									
T7	2.3 Guide arm assy	T	1																									
T6	2.3 Lid guide	T	1																									
T5	2.3 Pinch roller arm assy	T	2							1																		
T12	2.4 Idler arm	T	4	1	2	3																						
T11	2.4 Idler gear 1/2	T	5	1	2	3					4																	
T4	2.5 Main brake assy (T)	T	6	1	2	3					4	5																
T10	2.5 Reel disk (T)	T	7	1	2	3					4	5	6															
T16	2.5 Tension arm	T	6	1	2	3					4	5																
T13	2.5 Reel disk (S)	T	7	1	2	3					4	5			6													
T15	2.5 Tension arm base	T	7	1	2	3					4	5			6													
-	- T-up head	T	8	1	2	3					4	5			6	7												
-	- T-up lever	T	8	1	2	3					4	5			6	7												
T8	2.5 Brake lever	T	8	1	2	3					4	5	6	7														
T14	2.5 Rec safety lever	T	7	1	2	3	4	5	6																			
B12	2.6 Press lever	B	1																									
B11	2.6 Control cam	B	2														1											
B13	2.6 Capstan brake assy	B	3														1	2										
B9	2.6 Loading motor assy	B	4														1	2	3									
B10	2.7 Belt	B	1																									
B14	2.7 Capstan motor	T/B	2																		1							
-	- Wire holder	T/B	1																									
B2	2.7 Fixing plate	B	1																									
B4	2.7 Load gear	B	2																			1						
B3	2.7 Loading gear assy(S)	B	3																			1	2					
B1	2.7 Loading gear assy(T)	B	4																			1	2	3				
T1	- Pole base assy(S)	T/B	4																			1	2	3				
T2	- Pole base assy(T)	T/B	5																			1	2	3	4			
-	- Load gear base	B	5																			1	2	3	4			
B5	2.7 Control plate	B	6														1	2			3	4	5					
T9	- Drive lever	T/B	10	1	2	3	4	5	6								7	8		9								
B8	2.8 Clutch unit	B	2																		1							
B15	2.8 Direct gear	B	3																		1						2	
B7	- Change lever	T/B	6								1	2									3						4	5
B6	- Tension arm lever	T/B	14	1	2	3					4	5			6	7	8	9			10	11	12			13		

2.3.6 REPLACEMENT OF THE MAIN MECHANISM PARTS

2.3.6.1 Cassette holder

2.3.6.1.1 Removal

(1) Remove the screws (a) and (b).
(2) Hold up the top frame, cassette holder assembly, drive arm assembly and side frames (L/R) all together and remove them by releasing the hooks (a) and (b).

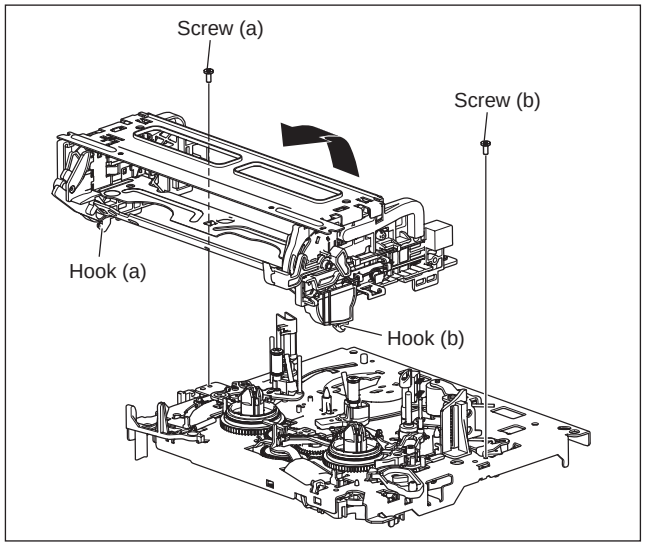


Fig.2-3-7

2.3.6.1.2 Installation (phase adjustment)

(1) Turn gear (a) of the loading motor assembly so that the main deck connects to the guide hole (a) of the drive lever.
(2) Hook the main deck to hooks (a) and (b).
(3) Place the projection of the drive lever to section (a) of the side frame (R) and install the cassette holder to the main deck. Make sure that the bosses of the side frame (L/R) connect with the holes (a) and (b) of the main deck.
(4) Secure screws (a) and (b).

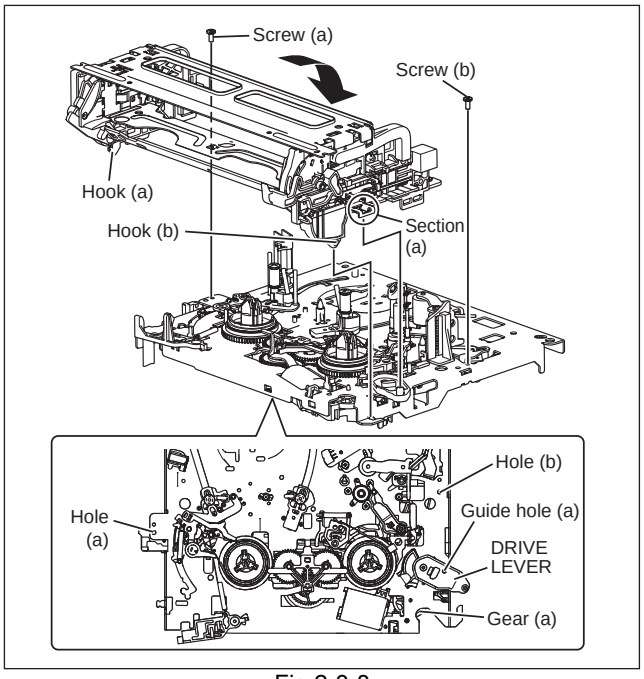


Fig.2-3-8

2.3.6.1.3 Disassembling

(1) Release hook (a) to remove the earth spring (1) from the top frame.
(2) Release the catches (a) and (b) and pull the top frame in the direction shown by the arrow (a) to remove it.
(3) Pull out the side frame (R).
(4) Pull out the cassette holder assembly and drive arm assembly from the side frame (L).

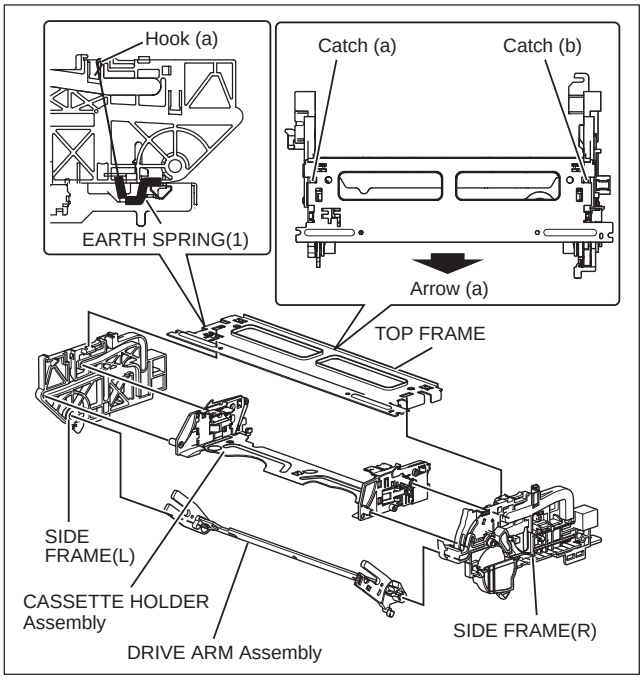


Fig.2-3-9

2.3.6.1.4 Assembling (installation and phase adjustment)

(1) Turn gear (a) of the loading motor assembly so that the main deck connects to the guide hole (a) of the drive lever.
(2) Place the projection of the drive lever on section (a) of the side frame (R) and install the side frame (R) to the main deck.
(3) Secure screw (b).
(4) Place section (b) of the drive arm on the gear of the side frame (R). Make sure that the pin of the door opener connects with section (c) of the drive arm.
(5) Place the drive arm on section (d) of the side frame (L) and install the side frame (L) on the main deck. Be sure to connect the earth spring (1) to the side frame (L).
(6) Secure screw (a).
(7) Turn gear (a) of the loading motor assembly until the drive arm is vertical.
(8) Place the slit of the side frame (L/R) at the foot of the cassette holder assembly and install the cassette holder.
(9) Place the top frame on the position guide (a) of the side frame (L/R) and push it in the direction shown by the arrow (a) for installation.
(10) Hook the earth spring (1) to the hook (a) of the top frame.

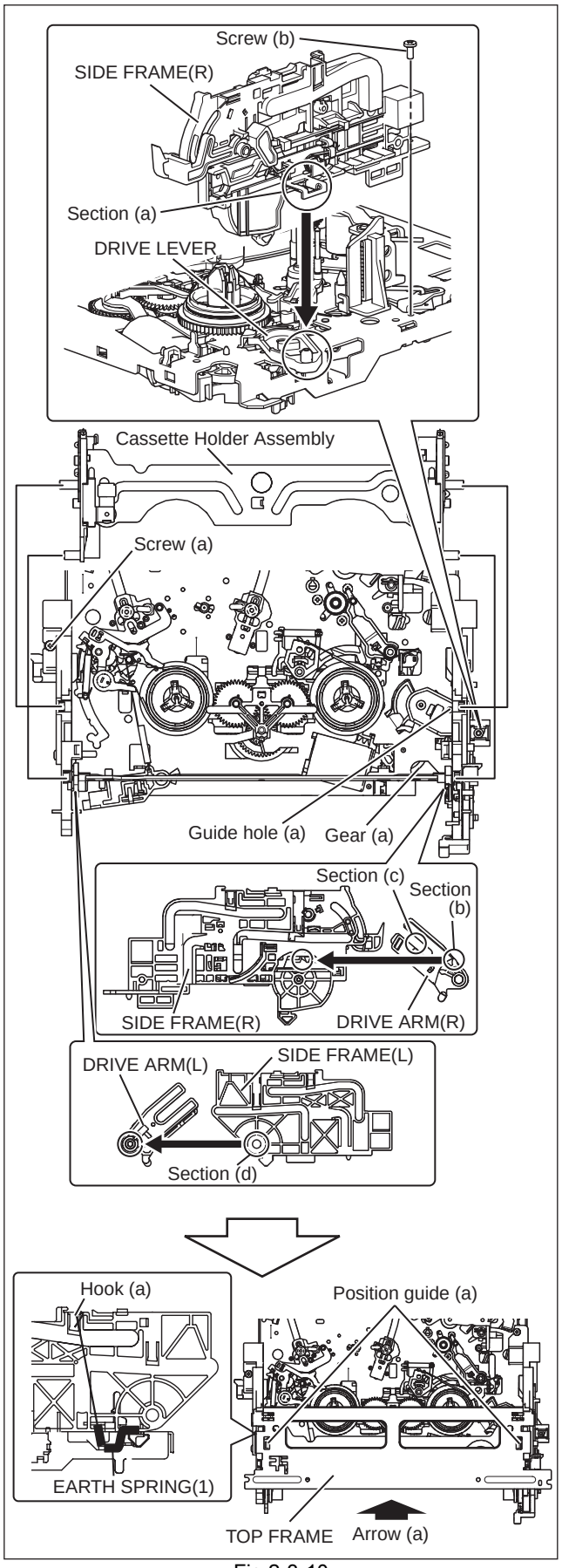


Fig.2-3-10

2.3.6.2 A/C head

2.3.6.2.1 Removal

(1) Remove screws (a) and (b).
(2) Remove the A/C head together with the head base.
(3) Remove the screws (c), (d) and (e) to remove the spring (a) and the A/C head from the Head base.

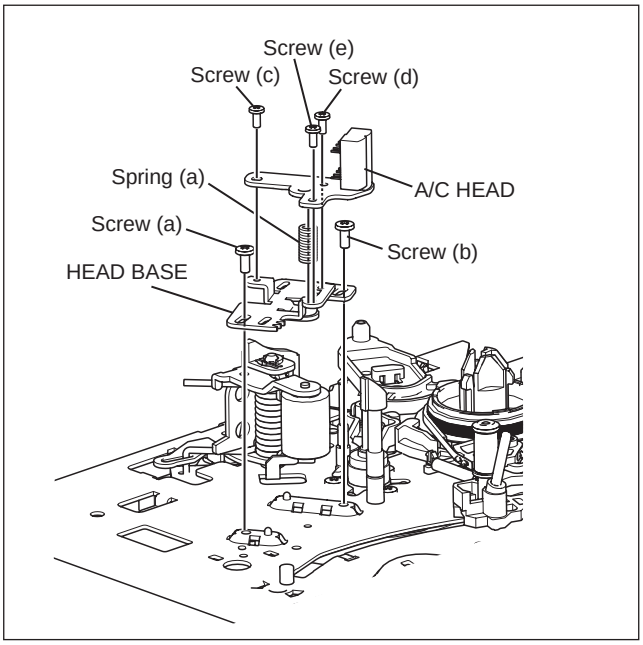


Fig.2-3-11

2.3.6.2.2 Installation (initial setting)

To install the A/C head to the head base, secure the screws in the order of (c), (d) and (e). To make the adjustment easy, temporarily elevate the A/C head.

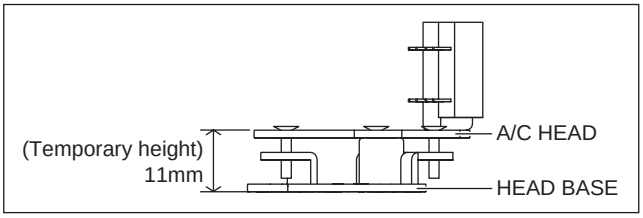


Fig.2-3-12

2.3.6.3 Guide arm, pinch roller arm

2.3.6.3.1 Removal

(1) Remove the spring (a) from the hook (a) and detach the guide arm assembly.
(2) Release the catch (a) to remove the lid guide.
(3) Remove the spring (b) from the hook (b) and detach the pinch roller arm assembly.

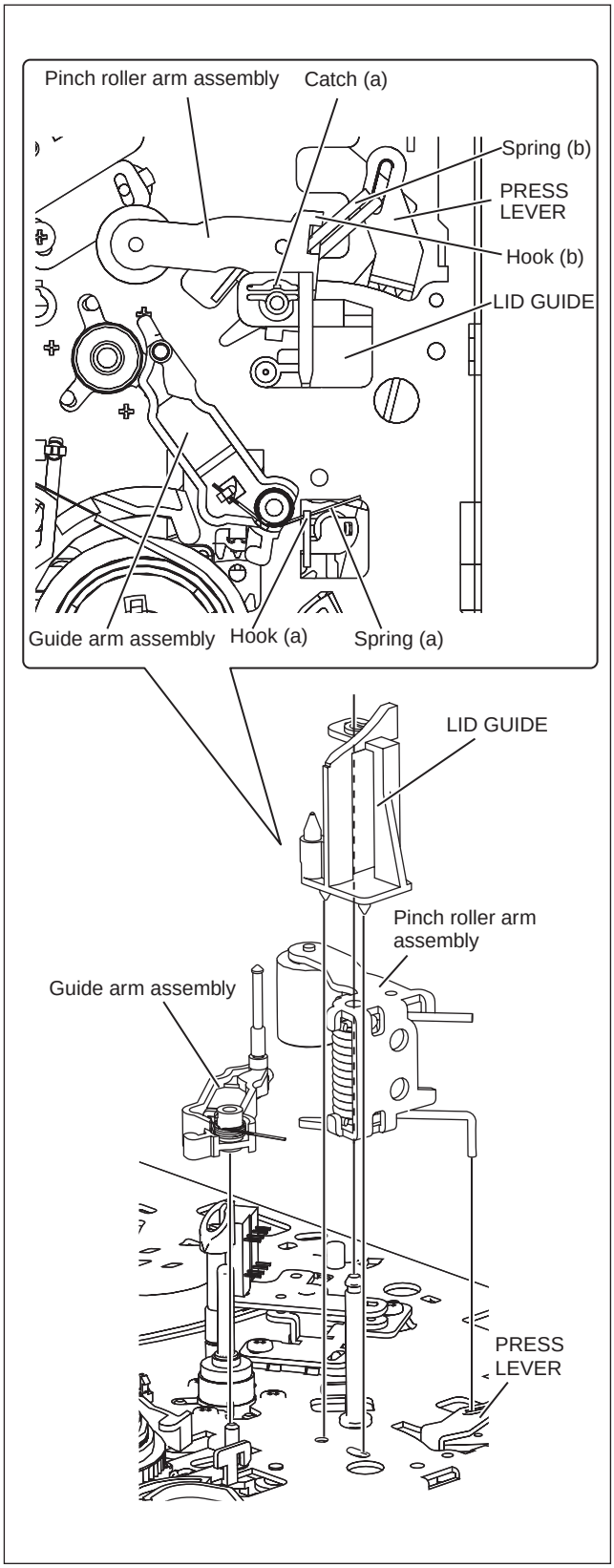


Fig.2-3-13

2.3.6.4 Idler arm, idler gear 1/2

2.3.6.4.1 Removal

(1) Release the catches (a) and (b) to detach the idler arm.
(2) Detach the idler gear 1/2.

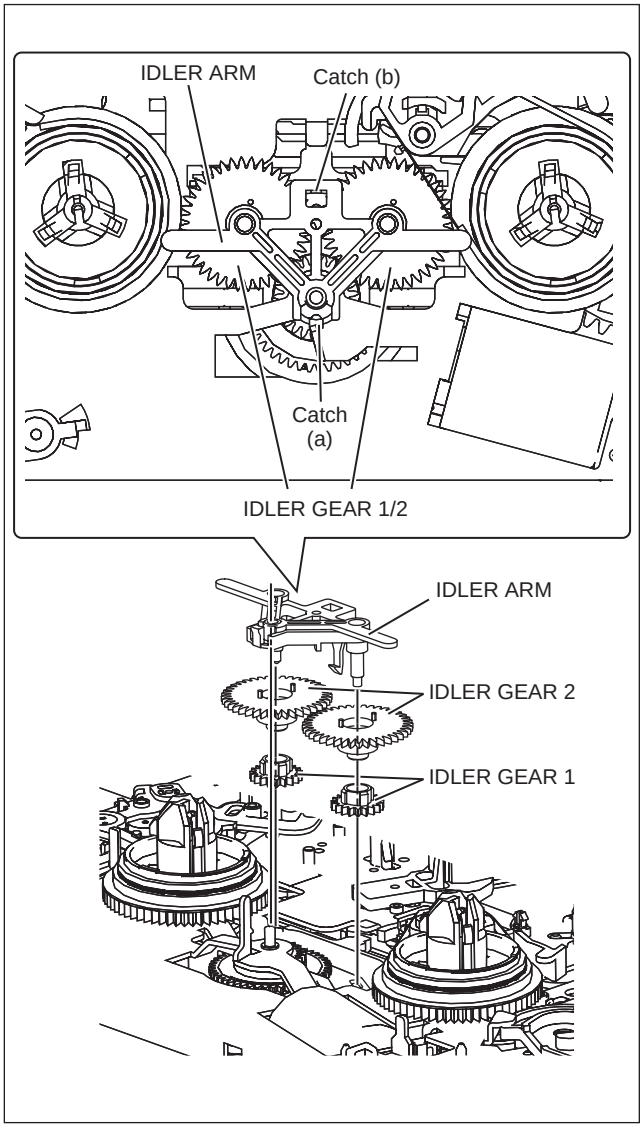


Fig.2-3-14

2.3.6.5 Main brake (T), brake lever, tension arm, reel disk (S/T), Rec safety lever

2.3.6.5.1 Removal

(1) Remove the spring (a). (Detach section (b) of the spring (a).)
(2) Release the catch (a) to detach the main brake (T).
(3) Release the catch (b) to detach the reel disk (T) and the spacer.
(4) Lift up and turn section (b) of the brake lever counterclockwise to remove the brake lever.
(5) Remove the spring (b) from the hook (a).
(6) Release the catch (c) to detach the tension arm.
(7) Release the catch (d) to detach the reel disk (S) and the spacer.
(8) Remove the spring (c) from the hook (b).
(9) Turn the tension arm base in the direction shown by arrow (a) to release catch (e). Place the projections of the tension arm base to the holes (a) to detach the tension arm base.
(10) While releasing the catch (f), turn the Rec safety lever counterclockwise to remove it.

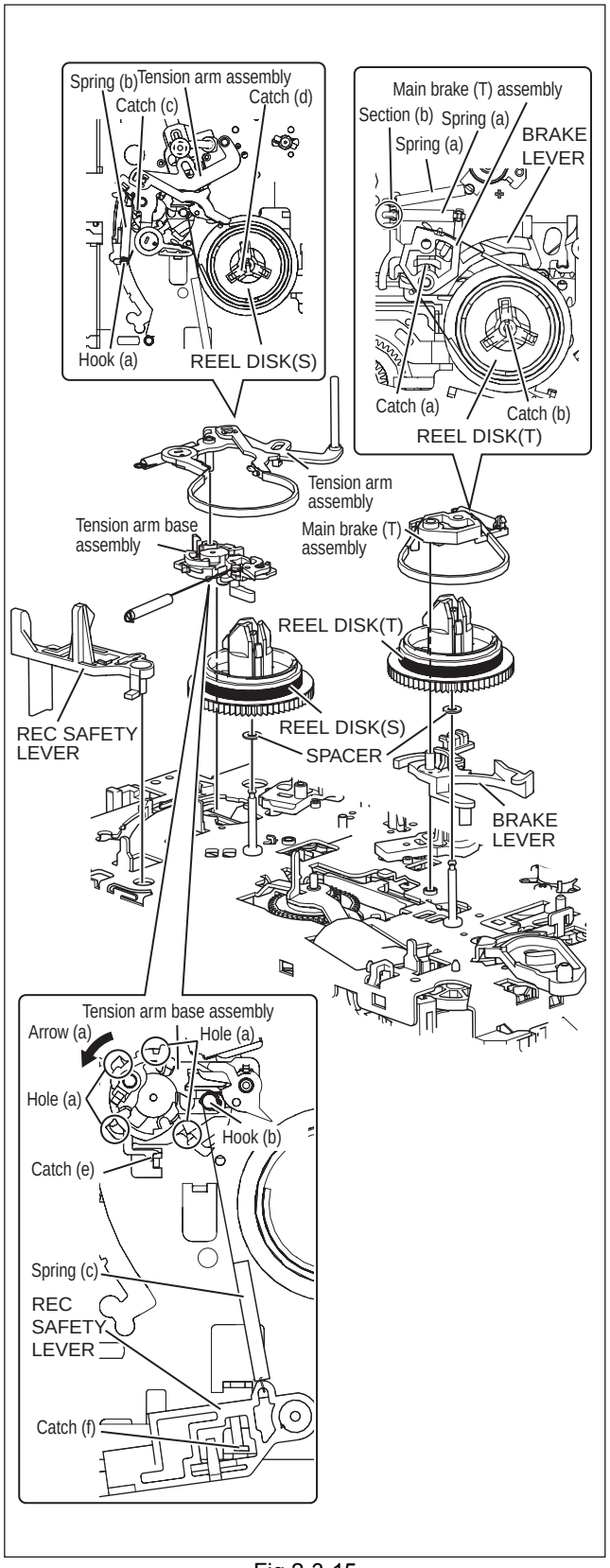


Fig.2-3-15

2.3.6.6 Press lever, control cam, capstan brake assembly, loading motor assembly

2.3.6.6.1 Removal

(1) Remove the slit washer (a) to detach the press lever.
(2) Release the slit washer (b) to detach the control cam.
(3) Release the catch (b) to detach the capstan brake assembly.
(4) Remove the solder (a).
(5) Remove the screw (a).
(6) Release the catches (c) and (d) to detach the loading motor assembly.

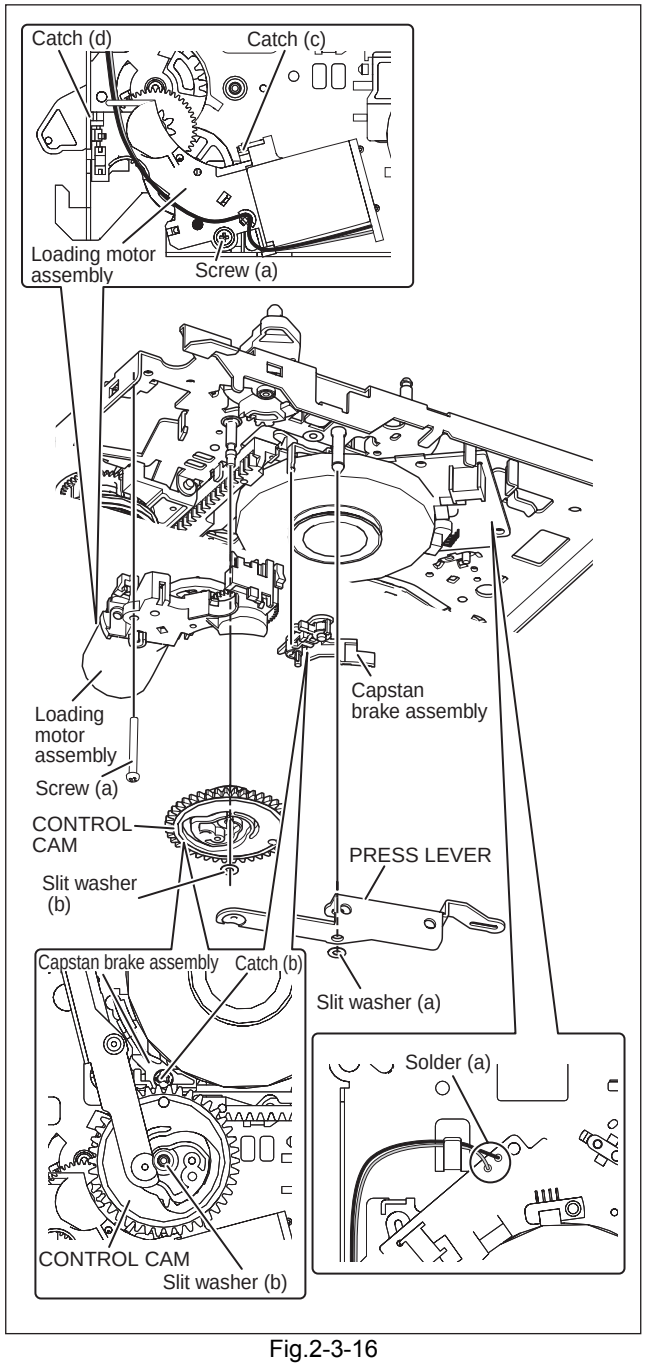


Fig.2-3-16

2.3.6.6.2 Installation (phase adjustment)

(1) Attach the loading motor assembly to the main deck.
(2) Secure the screw (a).
(3) Solder the wire to section (a).
(4) Arrange the wire along with the position guide (b).
(5) Attach the capstan brake assembly to the main deck.
(6) Place the main deck on the guide hole (a) of the control plate.
(7) Place the main deck on the guide hole (b) of the drive lever.
(8) Place the main deck no guide hole (c) of the control cam to install the control cam.
(9) Move the capstan brake in the direction shown by the arrow (a) to attach the press lever to the shaft (a). Make sure that the boss of the press lever fits in the control cam, and that the shaft (b) of the pinch roller arm assembly connects with the hole of the press lever.
(10) Attach slit washer (a) to shaft (a).

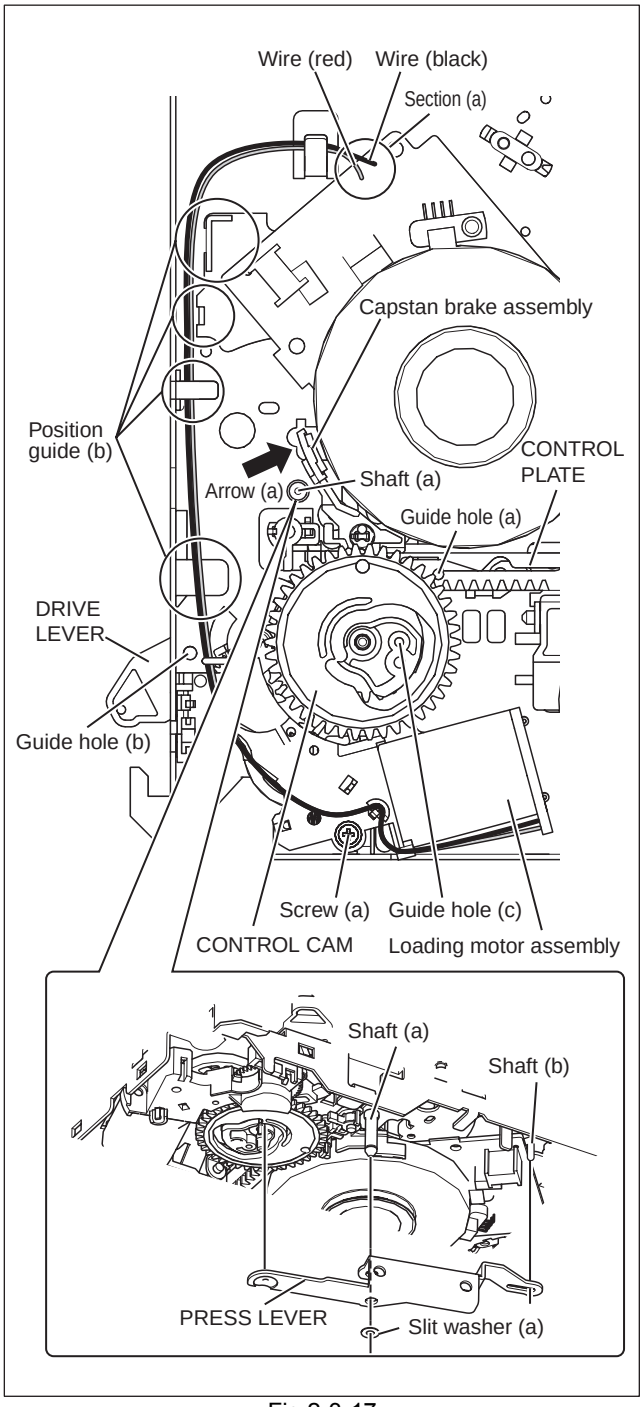


Fig.2-3-17

Note:

- When replacing the worm bearing of the loading motor assembly, attach it according to the following specification.
  If worm bearing is not attached correctly, a mechanism noise may occur. (See Fig. 2-3-18)

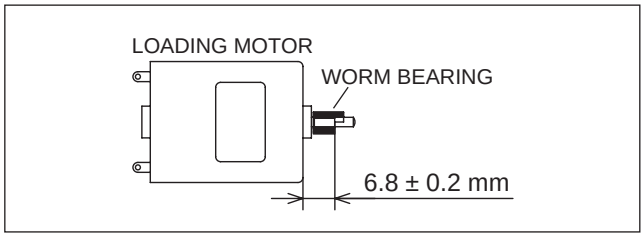


Fig.2-3-18

2.3.6.7 Capstan motor, load gear, control plate

2.3.6.7.1 Removal

(1) Detach the belt.
(2) Check that the FFC connector on the drum is disconnected.
(3) Release the catch (a) to remove the FFC wire.
(4) Remove the screws (a) to detach the capstan motor.
(5) Remove the screws (b) to detach the fixing plate.
(6) Release the catch (b) to detach the load gear.
(7) Turn the load gear (S/T) in the loading direction to detach it.
(8) Remove the control plate.

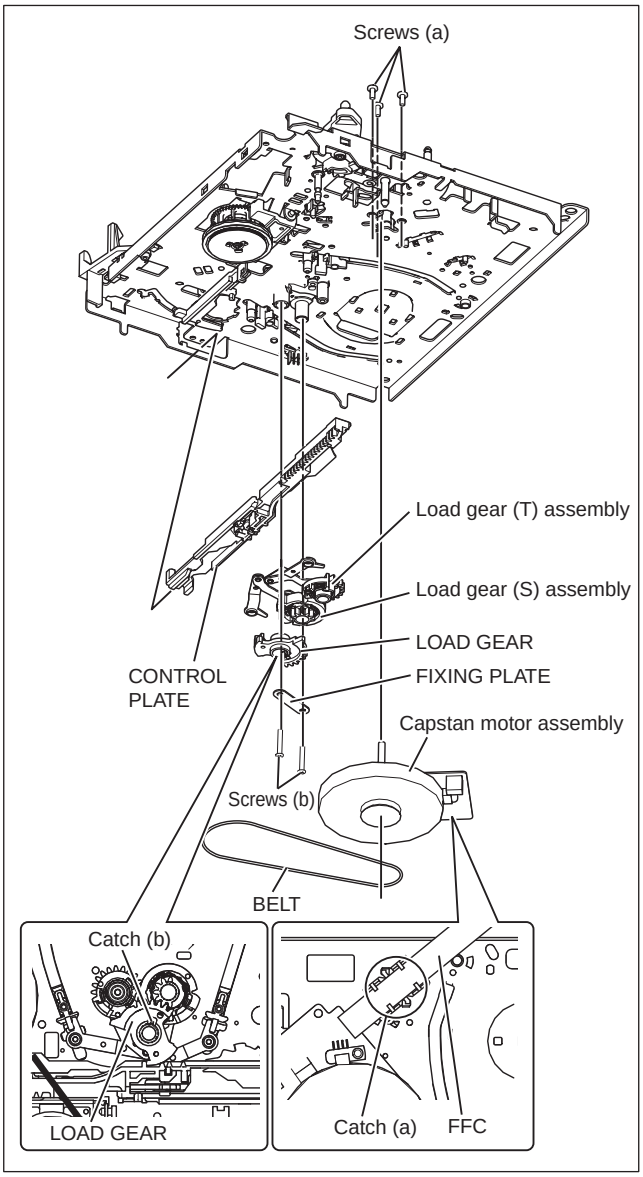


Fig.2-3-19

2.3.6.7.2 Installation (phase adjustment)

(1) Place the main deck on the guide hole (a) of the tension arm lever.
(2) Place the main deck on the guide hole (b) of the brake lever.
(3) Attach the control plate to align with the position guide (a).
(4) Place the hole (c) of the load arm (T) on the pole base (T) and the load gear (T) on the load gear base.
(5) Place the hole (d) of the load arm (S) on the pole base (S) and the load gear (S) on the load gear base. Be sure to align the guide mark (e) of the load gear (T) to that of the load gear (S).
(6) Turn the load gear (S/T) in the unloading direction to place the main deck on the guide hole (f) of the load gear (T).
(7) Place the main deck on the guide hole (g) of the control plate.
(8) Attach the load gear on the load gear base so that the control plate is placed on the edge (h) of the load gear.
(9) Place the fixing plate on the shaft of the load gear base and secure the screws (b).

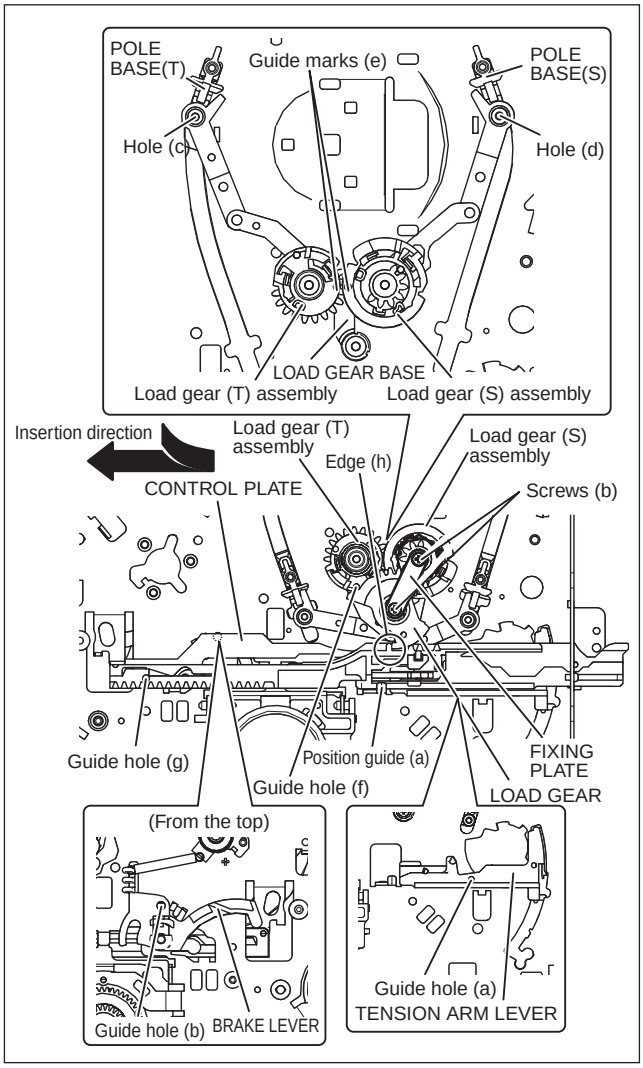


Fig.2-3-20

2.3.6.8 Clutch unit assembly, direct gear

2.3.6.8.1 Removal

(1) Remove the slit washer (a) to detach the clutch unit assembly.
(2) Remove the spring (a) and the direct gear.

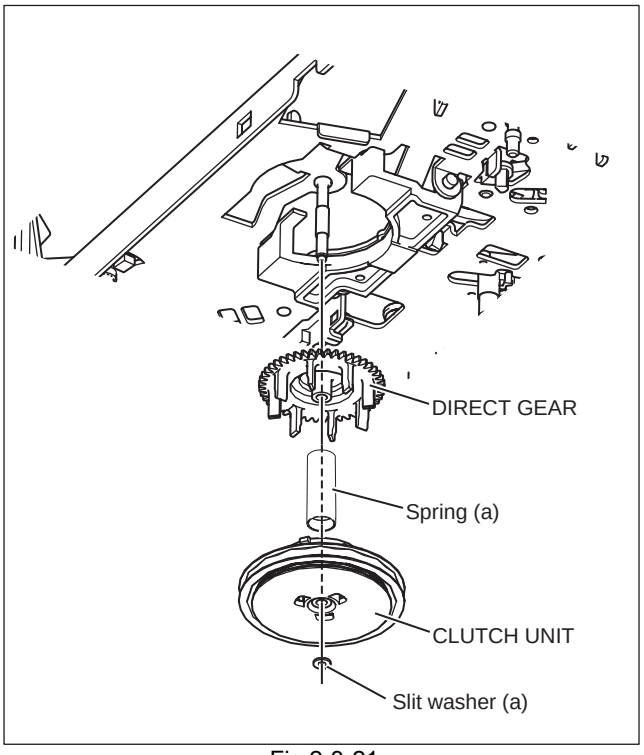
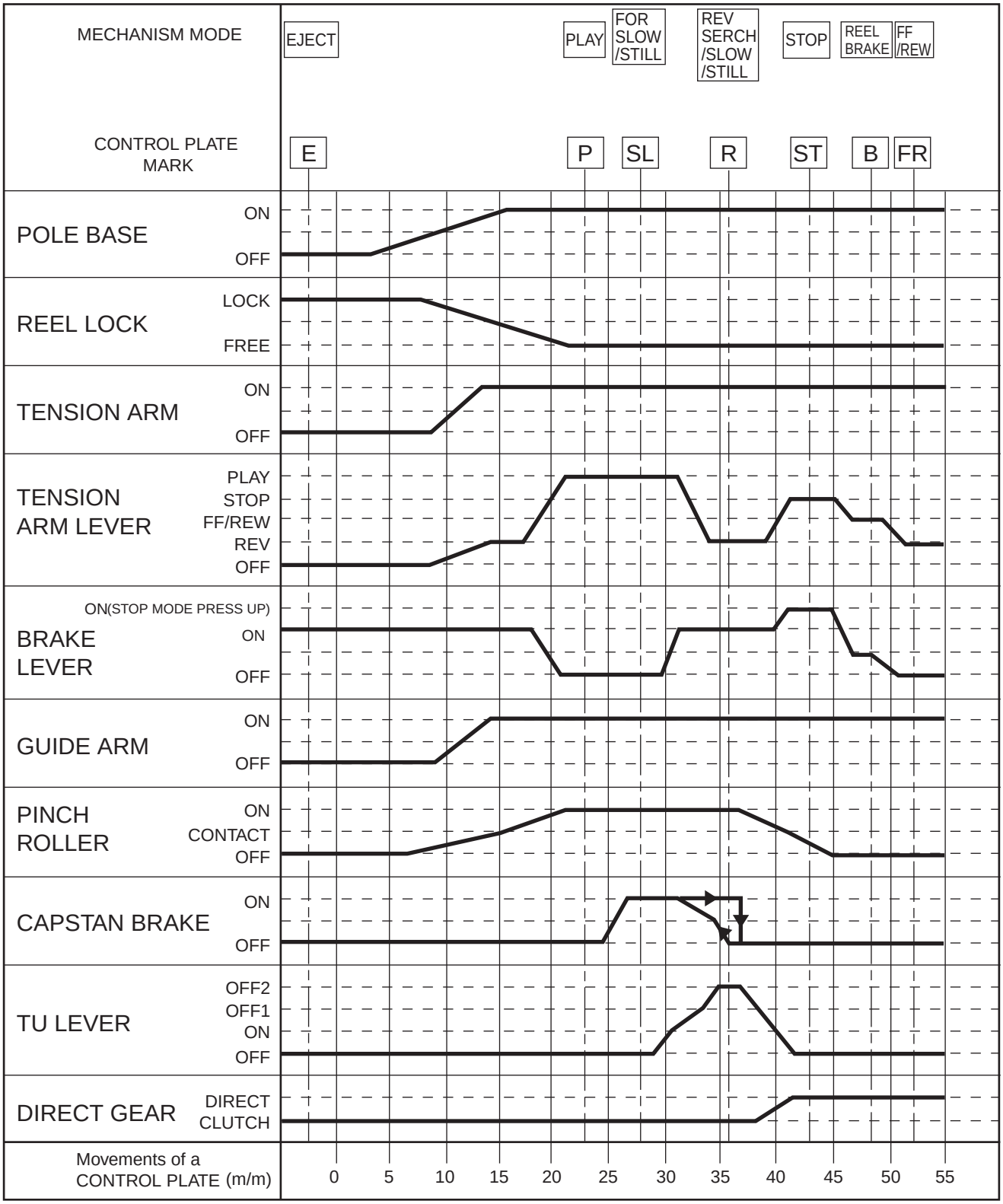


Fig.2-3-21

2.3.7 MECHANISM TIMING CHART



2.3.8 REMARKS

2.3.8.1 Cleaning

(1) For cleaning of the upper drum (particularly video heads), use fine-woven cotton cloth with alcohol soaks through. Do not move the cloth but turn the upper drum counterclockwise.

NOTE:
Make sure not to move the cloth in the vertical direction to the video head, since it may cause damage of the video heads.

(2) For cleaning of parts of the tape transport system except the upper drum, use fine-woven cotton cloth or cotton swab soaked alcohol.

(3) After cleaning, confirm that the cleaned parts are completely dry before loading the deck with cassette tape.

2.3.8.2 Applying oil and grease

(1) Periodical oiling and greasing are not required but should be done to new parts when replacing. If oil and grease on the other parts of the other party are old and dirty, wipe them clean and apply new oil or grease.

(2) For parts and points to apply oil and grease, refer to the exploded view of the 3.3 VHS MECHANISM ASSEMBLY. Fig.2-3-22 specifies oil and grease to be used.

(3) When oiling, clean the objective parts with alcohol first and apply one or two drop(s) of oil. Too much oiling causes rotary parts to slip because of oil leakage.

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	COSMO-HV56	BB

specifies oil and grease to be used

Fig.2-3-22

JVC

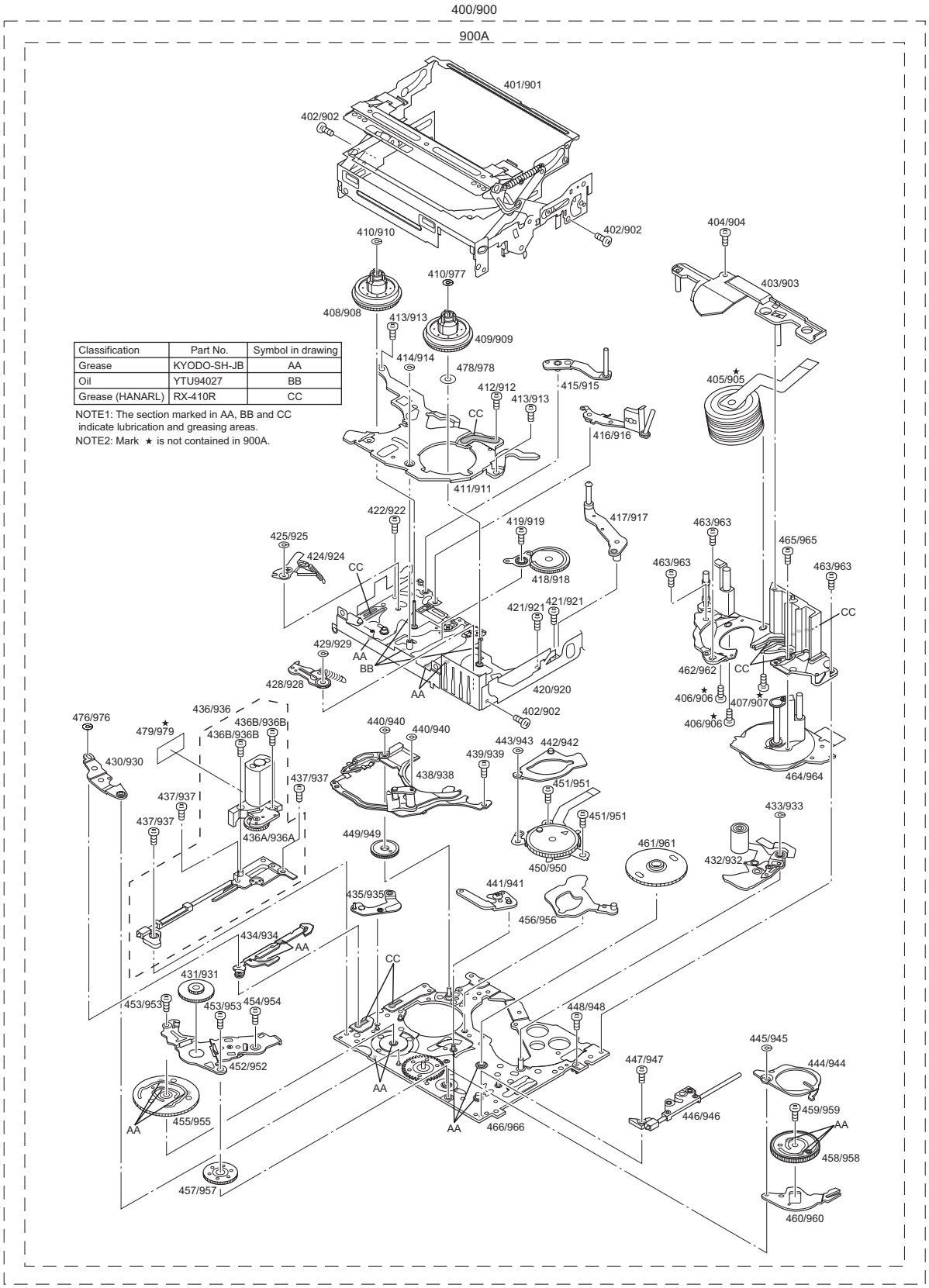
VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY CAMCORDER CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.86700)

Printed in Japan
200304WPC

SECTION 3
PARTS LIST

3.1 DVC MECHANISM ASSEMBLY



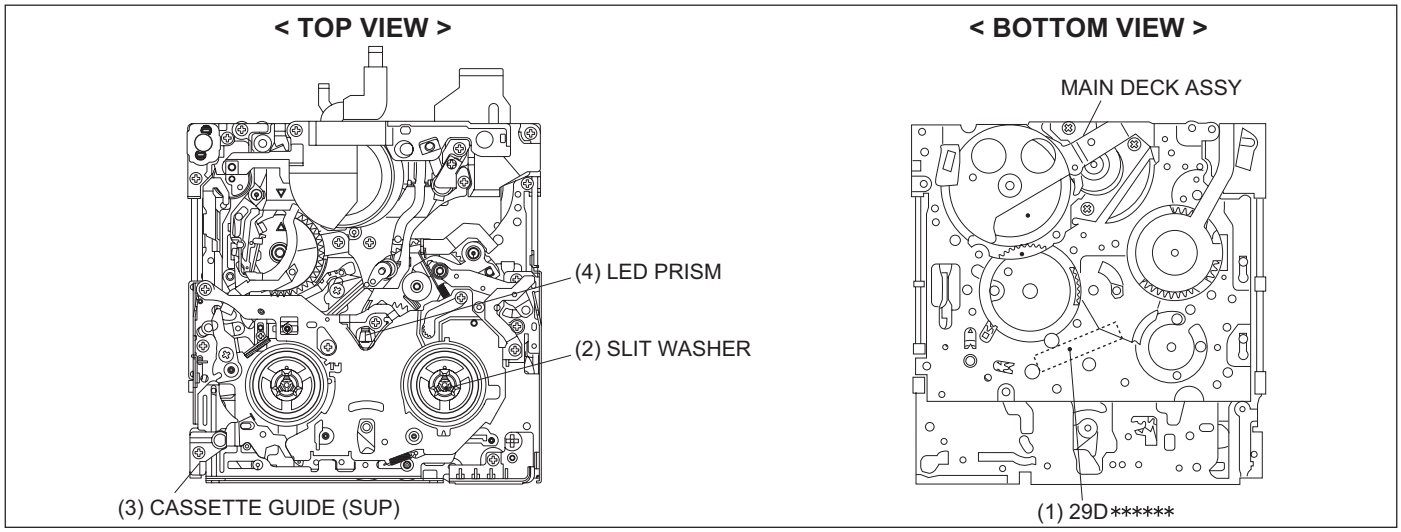
Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

NOTE1: The section marked in AA, BB and CC indicate lubrication and greasing areas.
NOTE2: Mark ★ is not contained in 900A.

Fig.3-1-1

3.1.1 DVC MECHANISM ASSEMBLY PART LIST

- Since parts numbers described here are the numbers at the time of manualissue, they are subject to change without notice. Therefore, be sure to see a parts list in the service manual of each model as for parts numbers.
- To distinguish the mechanism assembly with the symbol number of 400-499 from the mechanism assembly with the symbol number of 900-999, see the following procedures.
  (1) See the numbers on the backside of the MAIN DECK ASSY.
  For example, "29D******" is printed on the backside of the mechanism assembly with the symbol number of 900-999 (YMA0029D in this example). See the first three characters and numbers from the left.
  (2) See the color of the SLIT WASHER on the REEL DISK (TU).
  A red slit washer is used (the same color as a slit washer of CASSETTE GUIDE (SUP)) in the mechanism assembly with the symbol number of 400-499. A black slit washer is used in the mechanism assembly with the symbol number of 900-999.
  However, the black slit washer may be changed into a red one for the purpose of parts unification.
  (3) See the color of the CASSETTE GUIDE(SUP).
  Light-brown CASSETTE GUIDE(SUP) is used in the mechanism assembly with the symbol number of 400-499.
  Black CASSETTE GUIDE(SUP) is used in the mechanism assembly with the symbol number of 900-999.
  (4) See the shape of the LED PRISM. LED PRISM consists of only resin in the mechanism assembly with the symbol number of 400-499.
  Upper part of the LED PRISM is covered with black metal in the mechanism assembly with the symbol number of 900-999.



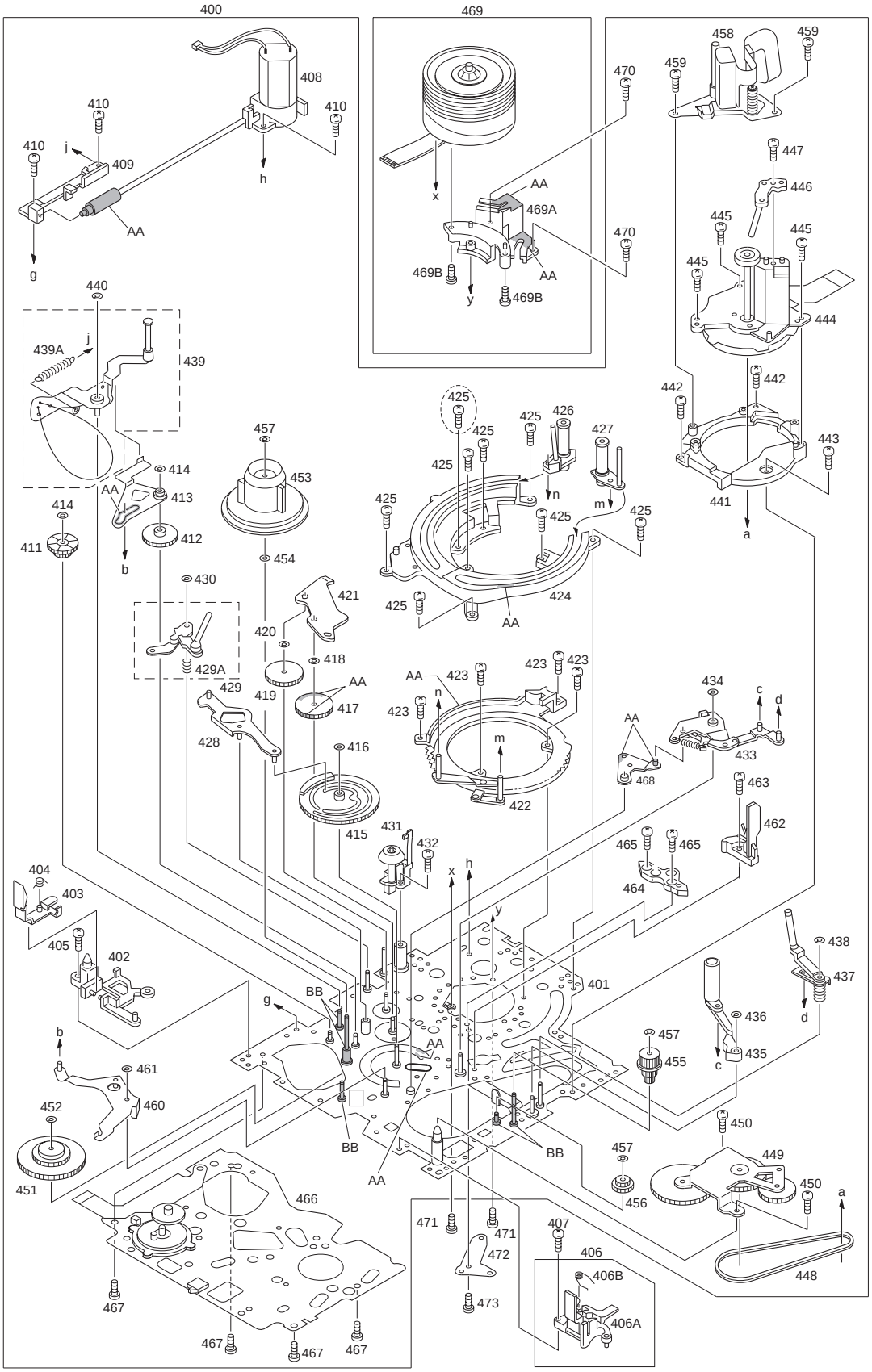
Part Name	Symbol No.	Part No.	Part No.	Part No.	Symbol No.	Part No.	Patr No.
MECHA(A) ASSY	400	YMA0029C	YMA0029M	YMA0029L	900	YMA0029H	YMA0029E
MECHA(A)ASSY	-	-	-	-	900A	YMA0029D	-
CASSETTE HOUSING ASSY	401	LY31543-002E*	LY31543-002H	←	901	LY32870-001G*	LY32870-001J
MINI SCREW,X3	402	YQ43893-8	←	←	902	←	←
UPPER BASE ASSY	403	LY31542-001J	←	←	903	LYH30420-001A	←
MINI SCREW	404	YQ43893*	QYSPSPU1425M	←	904	←	←
DRUM ASSY	405	**	**	**	905	**	**
DAMP.SCREW ASSY,X2	406	LY42820-001A	←	←	906	←	←
DAMP.SCREW ASSY	407	LY42820-002A	←	←	907	←	←
REEL DISK ASSY (SUP)	408	LY31538-001B*	LY31538-001F	←	908	←	←
REEL DISK ASSY (TU)	409	LY31538-002B*	LY31538-002H	LY31538-002G	909	LY31538-002H	←
SLIT WASHER,X2 or X1	410	YQ44246,(x2)	←,(x2)	←,(x2)	910	←*,(x1)	←,(x2)
REEL COVER ASSY	411	LY10217-001A*	LY10217-001F	←	911	LY10372-001D	←
MINI SCREW	412	LY42120-001A*	LY42120-002A	←	912	←	←
MINI SCREW,X2	413	LY41945-003A	←	←	913	←	←
SLIT WASHER	414	YQ44246	←	←	914	←	←
TENSION ARM ASSY	415	LY42025-001C	←	←	915	LY43725-001D	←
SLANT POLE ARM ASSY	416	LY31535-001F	←	←	916	LYH40269-001A	←
TU ARM ASSY	417	LY42031-001G*	LY42031-001K	←	917	LY43731-001F	←
SWING ARM ASSY	418	LY31531-001D	←	←	918	←	←
MINI SCREW	419	YQ43893	←	←	919	←	←
SLIDE DECK FINAL ASSY	420	LY20530-003B*	LY20530-003E	←	920	LYH30424-001A	←

Part Name	Symbol No.	Part No.	Part No.	Part No.	Symbol No.	Part No.	Patr No.
MINI SCREW,X2	421	YQ43893	←	←	921	←	←
MINI SCREW	422	LY43023-001A	←	←	922	←	←
PAD ARM ASSY	424	LY31533-001E	←	←	924	LYH30419-001A	←
SLIT WASHER	425	YQ44246	←	←	925	←	←
TU BRAKE ASSY	428	LY42016-001B	←	←	928	LYH40270-001A	←
SLIT WASHER	429	YQ44246	←	←	929	←	←
TENSION CONTROL LEVER ASSY	430	LY41959-001B	←	←	930	LY43684-001A	←
CENTER GEAR	431	LY31525-001B	←	←	931	LY32861-001A	←
PINCH ROLLER ARM FINAL ASSY	432	LY31516-001E	←	LY31516-001F	932	←	←
SLIT WASHER	433	YQ44246	←	←	933	←	←
TENSION CONTROL PLATE ASSY	434	LY41956-001C	←	←	934	LY43681-001A	←
BRAKE CONTROL LEVER ASSY	435	LY41962-001B*	LY41962-001C	←	935	LY43687-001A	←
MOTOR BRACKET ASSY	436	LY20525-002C	←	←	936	LYH30421-001A	←
LOADING MOTOR	436A	QAR0138-001	←	←	936A	←	←
TAPPING SCREW,x2	436B	LY41940-001A	←	←	936B	←	←
MINI SCREW,x3	437	YQ43893	←	←	937	←	←
GUIDE RAIL ASSY	438	LY20528-001R*	LY20528-001U	←	938	LYH30422-001A	←
MINI SCREW	439	YQ43893	←	←	939	←	←
SLIT WASHER,X2	440	YQ44246	←	←	940	←	←
SLIDE LEVER2 ASSY	441	LY31498-001C	←	LY31498-001D	941	LY32843-001A	←
LOADING PLATE ASSY	442	LY41965-001A	←	←	942	LY43690-001A	←
SLIT WASHER	443	YQ44246	←	←	943	←	←
EJECT LEVER	444	LY31522-001B	←	←	944	LY32858-001A	←
SLIT WASHER	445	YQ44246	←	←	945	←	←
BASE R ASSY	446	LY41929-001E*	LY41929-001F	←	946	LYH40271-001A	←
MINI SCREW	447	YQ43893	←	←	947	←	←
MINI SCREW	448	LY41945-001B	←	←	948	←	←
MODE GEAR	449	LY41930-001A	←	←	949	LY43665-001A	←
ROTARY ENCODER	450	QSW0876-003	←	←	950	←	←
MINI SCREW,X2	451	YQ43893	←	←	951	←	←
GEAR COVER ASSY	452	LY31524-001A	←	←	952	LY32860-001A	←
MINI SCREW,X2	453	YQ43893	←	←	953	←	←
MINI SCREW	454	YQ43893-4	←	←	954	←	←
MAIN CAM ASSY	455	LY41948-001C	←	←	955	LY43676-001A	←
SLIDE ARM ASSY	456	LY41941-001B	←	←	956	←	←
CONNECT GEAR 2	457	LY41951-001B	←	←	957	LY43678-001A	←
SUB CAM ASSY	458	LY41954-001B	←	LY41954-001E	958	←	←
MINI SCREW	459	LY42120-001A	←	←	959	←	←
CONTROL ARM ASSY	460	LY41952-001A	←	←	960	LY43692-001A	←
REEL GEAR 1	461	LY31523-001B	←	←	961	LY32859-001A	←
DRUM BASE ASSY	462	LY31508-002A*	LY31508-002B	LY33372-001A	962	LY31508-002B	←
SCREW,X3	463	QYSPSPU1425M	←	←	963	←	←
CAPSTAN MOTOR	464	QAR0142-001	←	←	964	←	←
MINI SCREW	465	YQ43893	←	←	965	←	←
MAIN DECK ASSY	466	LY10210-001D*	LY10210-001G	←	966	LY10367-001D*	LY10367-001E
SLIT WASHER	476	YQ44246	←	←	976	←	←
SLIT WASHER	477	-	-	-	977	YQ44246-6	-
WASHER	478	-	-	-	978	LY42047-005A	←
SPACER	479	-*	LY43987-001B	←	979	←	←

NOTE:

MARK ← is same as left.
MARK - is not used.
MARK * reference model was also changed.
MARK ** shows different parts number, depending on models.

3.2 VHS-C MECHANISM ASSEMBLY



Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

Fig.3-2-1

3.2.1 VHS-C MECHANISM ASSEMBLY PARTS LIST

- Since parts numbers described here are the numbers at the time of manualissue, they are subject to change without notice. Therefore, be sure to see a parts list in the service manual of each model as for parts numbers.

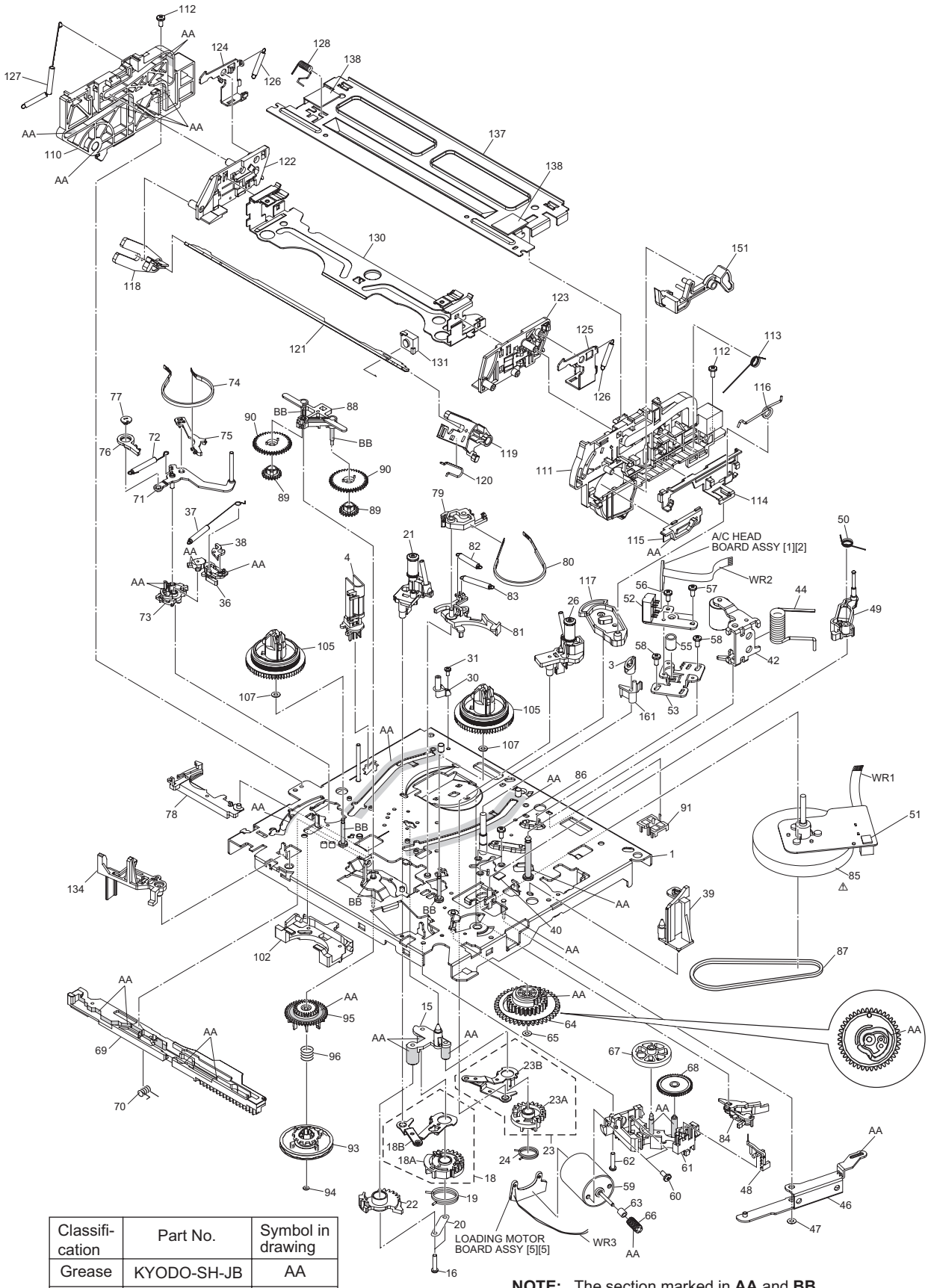
Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.	Part No.
MECHA(B) ASSY	400	YMA0033A-E	YMA0042A-E	YMA0034A-E	YMA0036A-E	YMA0040A-E
MAIN DECK ASSY	401	LY20612-001B	←	←	←	←
CASSETTE GUIDE (LEFT)	402	LY31817-001A	←	←	←	←
SW LEVER (LEFT)	403	LY31815-001A	←	←	←	←
TORSION SPRING	404	LY42581-001A	←	←	←	←
SCREW	405	LY42722-001A	←	←	←	←
CASSETTE GUIDE ASSY(RIGHT)	406	-	-	YQ44339A-7	←	←
SW.LEVER(RIGHT)	406A	-	-	YQ32162-1-3	←	←
TORSION SPRING	406B	-	-	YQ44340-1-4	←	←
SCREW	407	-	-	LY42819-001A	←	←
MOTOR BRACKET ASSY	408	LY31826-001A	←	←	←	←
WORM BRACKET	409	YQ20793	LY20951-001A	YQ20793	←	LY20951-001A
SCREW,X3	410	LY42722-001A	←	←	←	←
WHEEL GEAR	411	LY31925-001A	←	←	←	←
MIDDLE GEAR	412	LY42730-001A	←	←	←	←
CANCEL LEVER ASSY	413	LY42521-001A	←	←	←	←
SLIT WASHER,X2	414	LY42754-003A	←	←	←	←
CONTROL CAM	415	YQ20827-2-1	←	←	←	←
SLIT WASHER	416	PQM30017-25	←	←	←	←
LOADING GEAR(T)ASSY	417	LY42733-001A	←	←	←	←
SLIT WASHER	418	LY42754-003A	←	←	←	←
LOADING GEAR(S)ASSY	419	LY42732-001A	←	←	←	←
SLIT WASHER	420	LY42754-003A	←	←	←	←
COVER PLATE	421	LY42403-001A	←	←	←	←
LOADING RING ASSY	422	LY42452-001A	←	←	←	←
SCREW,X4	423	LY42728-001A	←	←	←	←
GUIDE RAIL	424	LY10239-001A	←	←	←	←
SCREW,X8 or X7	425	LY42728-001A,(X8)	←,(X7)	←,(X8)	←,(X8)	←,(X7)
POLE BASE(S)ASSY	426	LY30161-001B	←	←	←	←
POLE BASE(T)ASSY	427	LY30162-002A	←	←	←	←
DRIVE LEVER ASSY	428	LY42523-001A	←	←	←	←
SLANT ARM ASSY	429	LY42545-001B	LY44000-001B	LY42545-001B	←	LY44000-001B
TORSION SPRING(S)	429A	LY42547-001A	LY43992-001A	LY42547-001A	←	LY43992-001A
SLIT WASHER	430	LY42754-003A	←	←	←	←
ROLLER BASE ASSY	431	LY42739-003A	←	←	←	←
SCREW	432	LY42722-001A	←	←	←	←
LINK ARM ASSY	433	LY42494-001A	←	←	←	←
SLIT WASHER	434	PQM30017-25	←	←	←	←
PINCH ROLLER ARM ASSY	435	LY40018-002A	←	←	LY40018-005A	←
SLIT WASHER	436	PQM30017-25	←	←	←	←
TAKE UP GUIDE ARM ASSY	437	LY42541-001B	←	←	←	←
SLIT WASHER	438	LY42754-003A	←	←	←	←
TENSION ARM ASSY	439	LY42571-001A	←	←	←	←
TENSION SPRING	439A	LY42669-001A	←	←	←	←
SLIT WASHER	440	LY42754-003A	←	←	←	←
MOTOR BASE	441	YQ20797-1-5	←	←	←	←
SCREW,X2	442	LY42722-001A	←	←	←	←
SCREW	443	YQ44460	←	←	←	←
CAPSTAN MOTOR	444	QAR0212-001	QAR0212-002	QAR0212-001	QAR0212-002	←
TAPPING SCREW,X3	445	YQ44304	←	←	←	←
SLANT POLE BASE ASSY	446	LY42731-001A	←	←	←	←
TAPPING SCREW	447	YQ44304	←	←	←	←
TIMING BELT	448	YQ43710-2	←	←	←	←
CENTER PULLEY UNIT	449	LY42678-001A	←	←	←	LY42678-003A

Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.	Part No.
SCREW,X2	450	LY42722-002A	←	←	←	←
SUPPLY CLUTCH ASSY	451	LY42670-001A	←	←	←	←
SLIT WASHER	452	LY42754-003A	←	←	←	←
REEL DISC	453	YQ31861-1-7	←	←	←	←
WASHER	454	LY42755-001A	←	←	←	←
TAKE UP GEAR	455	LY31924-001A	←	←	←	←
BRAKE SUB GEAR	456	LY42738-001A	←	←	←	←
SLIT WASHER,X3	457	LY42754-003A	←	←	←	←
A/C HEAD UNIT	458	LY42544-001B	LY42544-002A	LY42544-001B	←	LY42544-002A
SCREW,X2	459	SPSN1750Z	←	←	←	←
EJECT LEVER ASSY	460	LY42517-001A	←	←	←	←
SLIT WASHER	461	LY42754-003A	←	←	←	←
LED GUIDE	462	YQ31833-1-1	←	←	←	←
SCREW	463	LY42722-001A	←	←	←	←
DRUM SPACER	464	LY42729-001A	←	←	←	←
SCREW,X2	465	LY42722-001A	←	←	←	←
ROTARY ENCODER	466	QSW0888-001	←	QSW0888-002	←	←
SCREW,X4	467	LY42722-002A	←	←	←	←
LINK LEVER	468	LY31814-001A	←	←	←	←
DRUM FINAL ASSY	469	**	**	**	**	**
CATCHER	469A	YDM1003-1-5	←	←	←	←
SCREW,X2	469B	QYSPSPU1735M	←	←	←	←
SCREW,X2	470	LY42722-001A	←	←	←	←
SCREW,X2	471	SPSH1740Z	←	←	←	←
BRUSH	472	LY43542-001A	←	←	←	←
SCREW	473	LY42722-003A	←	←	←	←
CASSETTE HOUSING FINAL ASSY	*155/481	LY31808-001C	LY31808-002C	LY31808-001C	LY31808-001D	LY31808-002C
SCREW,X4	*156/482	LY42722-003A	←	←	←	←
BRACKET(MECHA)	*161/484	LY32326-001A	←	←	←	←
SCREW,X2	*162/485	LY42722-003A	←	←	←	←
SIDE BRACKET L	*164/487	LY31807-001A	←	←	←	←
SCREW	*165/488	LY42722-003A	←	←	←	←

NOTE:

MARK ← is same as left.
MARK - is not used.
MARK * are shown in the parts list of FINAL ASSY of service manual of each model.
MARK ** shows different parts number, depending on models.

3.3 VHS MECHANISM ASSEMBLY



Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

Fig.3-3-1

3.3.1 VHS MECHANISM ASSEMBLY PARTS LIST

- Since parts numbers described here are the numbers at the time of manualissue, they are subject to change without notice. Therefore, be sure to see a parts list in the service manual of each model as for parts numbers.

System		VHS		S-VHS	
**Job No.		V15D Series	V16D Series	V15S Series	V16S Series
Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.
MAIN DECK ASSY	1	LP21039-001N	LP21039-001S	LP21039-001R	LP21039-001S
GUIDE POLE CAP	3	LP40097-002D	←	←	←
FULL ERASE HEAD	4	QAH0082-001	←	←	←
LOAD.GEAR BASE	15	LP30958-001B	←	←	←
SCREW,X2	16	QYTPST2620Z	←	←	←
LORD.GEAR(SUPPLY) ASSY	18	LP40798-001A	←	←	←
LORD.GEAR(SUPPLY)	18A	LP21040-001A	←	←	←
LORD.ARM(SUPPLY) ASSY	18B	LP40799-001A	←	←	←
TORSION SPRING(SUPPLY)	19	LP40837-001A	←	←	←
FIXING PLATE	20	LP40903-001A	←	←	←
POLE BASE ASSY(SUPPLY)	21	LP40806-001D	←	←	←
LOAD GEAR	22	LP30959-002A	←	←	←
LORD. GEAR(TAKE UP) ASSY	23	LP40802-001B	LP40802-001C	LP40802-001B	LP40802-001C
LORD. GEAR(TAKE UP)	23A	LP21041-001B	LP21041-001C	LP21041-001B	LP21041-001C
LORD.ARM(TAKE UP) ASSY	23B	LP40803-001A	←	←	←
TORSION SPRING(TAKE UP)	24	LP40838-001A	←	←	←
POLE BASE ASSY(TAKE UP)	26	LP40808-001F	LP40808-001E	←	←
ARM BASE	30	-	←	LP31020-004A	←
SCREW	31	-	←	QYTDST2606Z	-
TU LEVER	36	LP21055-001E	←	←	←
TENSION SPRING	37	LP40943-001A	←	←	←
T-UP HEAD	38	LP40859-001D	←	←	←
LID GUIDE	39	LP30961-001C	←	←	←
SPACER	40	LP30002-0B7A	←	←	-
PINCH ROLLER ARM ASSY	42	LP40810-001A	←	←	←
TORSION SPRING	44	LP40840-001C	LP40840-001D	←	←
PRESS LEVER	46	LP30963-001B	←	←	←
SLIT WASHER	47	PQM30017-24	←	←	←
S-SWITCH	48	-	←	LP40930-002E	←
GIDE ARM ASSY	49	LP40813-001D	←	←	←
TORSION SPRING	50	LP40841-001A	←	←	←
SPACER	51	LP30002-090A	←	←	-
A/C HEAD	52	QAH0081-001	←	←	←
HEAD BASE	53	LP30965-001A	←	←	←
COMPRESSION SPRING	55	LP40842-001A	LP40842-001D	LP40842-001A	LP40842-001D
SCREWX1 A/C HEAD	*56	QYTDST2006M	←	←	←
A/C HEAD SCREW,X2	*57	LP41036-001A	←	←	←
SCREW,X2 A/C HEAD	*58	QYTDST2606Z	←	←	←
LOADING MOTOR	59	QAR0023-001	←	←	←
SCREW,X2	60	QYTPSP3003Z	←	←	←
MOTOR BRACKET	61	LP21056-002F	LP21056-002G	←	←
TAP SCREW	62	QYTPST2620Z	←	←	←
WORM BEARING	63	LP40814-001B	←	←	←
CONTROL CAM	64	LP21044-001D	←	←	←
SLIT WASHER	65	PQM30017-24	←	←	←
WORM GEAR	66	LP40815-001A	←	←	←
HELICAL GEAR	67	LP40816-001B	←	←	←
CONNECT GEAR	68	LP40817-001A	←	←	←

System		VHS		S-VHS	
**Job No.		V15D Series	V16D Series	V15S Series	V16S Series
Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.
CONTROL PLATE	69	LP10400-001H	←	←	LP10400-001J
TORTION SPRING	70	LP40843-001A	←	←	←
TENSION ARM ASSY	71	LP40818-001B	←	←	←
TENSION SPRING	72	LP40844-001C	LP40844-001E	LP40844-001D	LP40844-001E
TENSION ARM BASE	73	LP21045-001D	←	←	←
TENSION BAND ASSY	74	LP40821-001A	←	←	←
BAND HOLDER-1	75	LP30967-001B	←	←	←
BAND HOLDER-2	76	LP30968-001C	←	←	←
ADJUST PIN	77	LP40822-002B	←	←	←
TENSION ARM LEVER	78	LP31000-005E	←	←	←
MAIN BRAKE(TAKE UP)	79	LP21046-001C	←	←	←
BAND BRAKE ASSY	80	LP40824-001A	←	←	←
BRAKE LEVER	81	LP30969-002A	LP30969-002B	LP30969-002A	LP30969-002B
TENSION SPRING	82	LP30003-033B	←	←	←
TENSION SPRING	83	LP30003-035B	←	←	←
CAPSTAN BRAKE ASSY	84	LP40825-001B	←	←	←
CAPSTAN MOTOR	85	QAR0204-002	←	←	←
SCREW,X3 CAPSTAN MOTOR	86	QYTPSG2606M	QYTPSG2606Z	QYTPSG2606M	QYTPSG2606Z
BELTCAPSTAN MOTOR	87	LP30005-010A	←	←	←
IDLER ARM	88	LP30970-001A	←	←	←
IDLER GEAR 1,X2	89	LP40828-004A	←	←	←
IDLER GEAR 2,X2	90	LP40829-001B	LP40829-002A	LP40829-001B	LP40829-002A
WIRE HOLDER	91	LP31014-001A	←	←	←
CLUTCH UNIT	93	LP40934-001B	←	←	←
SLIT WASHER	94	PQM30017-47	←	←	←
DIRECT GEAR	95	LP30973-001A	←	←	←
COMPRESS. SPRING	96	LP40939-001A	←	←	←
CHANGE LEVER	102	LP30974-001B	←	←	←
REEL DISK,X2	105	LP21049-001A	←	←	←
SPACER,X2	107	LP30017-004A	←	←	←
SIDE FRAME(L)	110	LP10401-001F	LP10401-001H	LP10401-001F	LP10401-001H
SIDE FRAME(R)	111	LP10402-001F	LP10402-001K	LP10402-001G	LP10402-001K
SCREW,X2	112	QYTDST2606Z	←	←	←
TORSION SPRING	113	LP40917-001C	LP40917-001D	←	←
SIDE PLATE	114	LP30976-001D	LP30976-001E	←	←
LIMIT PLATE	115	LP30977-002D	←	←	←
LIMIT SPRING	116	LP40846-001C	←	←	←
DRIVE LEVER	117	LP31100-001B	←	←	←
DRIVE ARM(L)	118	LP30978-001B	←	←	←
DRIVE ARM(R)	119	LP30979-001H	LP30979-001N	LP30979-001H	LP30979-001N
TORSION SPRING	120	LP40847-001B	←	←	←
CONNECT PLATE	121	LP30980-001A	LP30980-001E	LP30980-001B	LP30980-001E
SIDE HOLDER(L)	122	LP10403-001C	←	←	←
SIDE HOLDER(R)	123	LP10404-001D	LP10404-001E	←	←
LOCK LEVER(L)	124	LP30983-001A	LP30983-001B	LP30983-001A	LP30983-001B
LOCK LEVER(R)	125	LP30984-001A	LP30984-001B	LP30984-001A	LP30984-001B
TENSION SPRING,X2	126	LP40924-001C	LP40924-001D	←	←
EARTH SPRING(1)	127	LP40856-001A	←	LP40856-001B	LP40972-001A
EARTH SPRING(2)	128	LP40857-001B	←	←	←
C.HOLDER ASSY	130	LP30981-001E	LP30981-001G	LP30981-001F	LP30981-001G
C.H STOPPER	131	LP31135-001A	-	LP31135-001A	-

System		VHS		S-VHS	
**Job No.		V15D Series	V16D Series	V15S Series	V16S Series
Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.
R.SAFETY LEVER	134	LP21051-002C	←	←	←
TOP FRAME	137	LP21052-001F	LP21052-001J	LP21052-001H	LP21052-001J
SPACER	138	LP30002-0A7A	-	LP30002-0A7A	-
DOOR OPENER	151	LP30985-001G	←	←	←
TAPE GUIDE	161	-	LP40993-001A	-	LP40993-001A
E-CARD WIRE DRUM.M	WR1	WJT0059-001C	WJT0059-001E	WJT0059-001D	WJT0059-001E
E-CARD WIRE AC HEAD CN2001	WR2	WJT0067-001B	←	←	←
E-FL/RB WIRE LOADING MOTOR	WR3	WJS0022-001A	←	←	←
MEMO	-	PMD0035B-C	PMD0040A-C	PMD0036B-C /PMD0039A-C	PMD0037A-C /PMD0041A-C

NOTE:

MARK ← is same as left.
MARK - is not used.
MARK * shows that Symbol No. and Parts No. may sometimes be different from those in each manual. See the table below for final Symbol No. and Parts No.
MARK ** is Job No.
To identify a model, see the Job No. of the model.
Job No. is shown just above the service manual number at the lower right of the service manual of each model.